

**Structured Product Details** 

Name Return Optimization Securities linked to Dow Jones EURO STOXX 50 Index

Pricing Date January 24, 2007 Issue Date January 31, 2007 Valuation Date July 24, 2008 Maturity Date July 31, 2008

 Issuer
 UBS

 CDS Rate
 3.65 bps

 Swap Rate
 5.28%

Reference Asset the Dow Jones EURO STOXX 50 Index
Initial Level 4,187.55
Dividend Rate 3.10%
Implied Volatility Delta¹ 0.85

Fair Price at Issue \$9.63 Realized Return -13.76%

CUSIP 90261J699
SEC Link www.sec.gov/Archives/edgar/
data/1114446/000093041307000665/
45888 42492.tx

## 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.

Report Prepared On: 08/02/13

# Return Optimization Securities linked to Dow Jones EURO STOXX 50 Index

# Description

UBS issued \$11.60 million of Return Optimization Securities linked to Dow Jones EURO STOXX 50 Index on January 31, 2007 at \$10 per note.

These notes are UBS-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 Dow Jones EURO STOXX 50 Index.

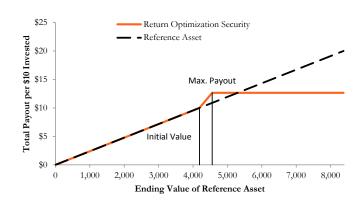
If on July 24, 2008 the Dow Jones EURO STOXX 50 Index level is higher than 4,187.55, but lower than 4,557.45, the notes pay a return equal to the percentage increase in the Dow Jones EURO STOXX 50 Index multiplied by 3.0, up to a cap of 26.50%. If on July 24, 2008 the refe is below 4,187.55 but not below 4187.55, investors receive \$10 face value per note. If the Dow Jones EURO STOXX 50 Index level on July 24, 2008 is lower than 4187.55, investors receive face value per note reduced by the amount the reference asset is below 4187.55 as a percent of the initial level, 4,187.55.

## **Valuation**

This product can be valued as a combination of a note from UBS, one short out-of-themoney 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 \$9.63 when it was issued on January 31, 2007 because the value of the options investors gave UBS plus the interest investors would have received on UBS's straight debt was worth \$0.37 more than the options investors received from UBS.

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



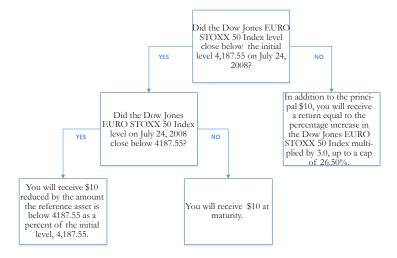
The payoff diagram shows the final payoff of this note given the Dow Jones EURO STOXX 50 Index level (horizontal axis). For comparison, the dashed line shows the payoff if you invested in the Dow Jones EURO STOXX 50 Index directly.

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## Principal Payback Table

The Dow Jones EURO STOXX 50 Index	Note Payoff
0.00	\$0.00
418.76	\$1.00
837.51	\$2.00
1,256.27	\$3.00
1,675.02	\$4.00
2,093.78	\$5.00
2,512.53	\$6.00
2,931.29	\$7.00
3,350.04	\$8.00
3,768.80	\$9.00
4,187.55	\$10.00
4,606.31	\$12.65
5,025.06	\$12.65
5,443.82	\$12.65
5,862.57	\$12.65
6,281.33	\$12.65

## Maturity Payoff Diagram

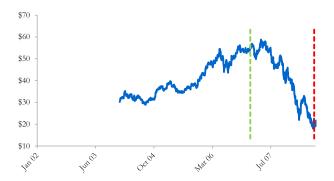


The contingent payoffs of this Return Optimization Security.

# **Analysis**

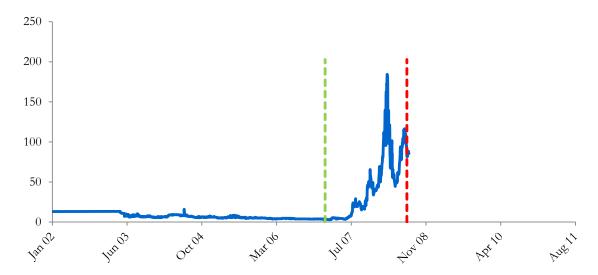
This Return Optimization Security pays investors the increase in the Dow Jones EURO STOXX 50 Index multiplied by 3.0 capped at 26.50%, but if the Dow Jones EURO STOXX 50 Index declines over the term of the note, investors will suffer losses equal to the percentage decline in the Dow Jones EURO STOXX 50 Index. In addition, investors bear the credit risk of UBS. Investors purchasing this Return Optimization Security effectively sell at-the-money put and out-of-the-money call options to UBS, buy at-the-money call options, and a zero-coupon note from UBS. This Return Optimization Security is fairly priced if and only if the market value of the options investors received from UBS equals the market value of the options investors gave UBS plus the interest investors would have received on UBS's straight debt.

## **UBS's Stock Price**



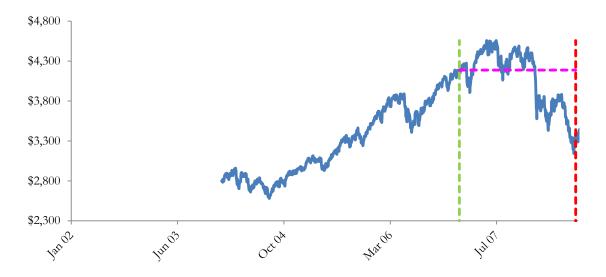
The graph above shows the adjusted closing price of the issuer UBS for the past several years. The stock price of the issuer is an indication of the financial strength of UBS. The adjusted price shown above incorporates any stock split, reverse stock split, etc.

## UBS's CDS Rate



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

# The Dow Jones EURO STOXX 50 Index Level

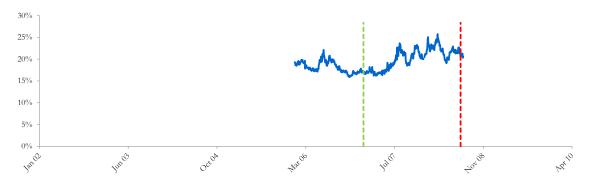


The graph above shows the historical levels of the Dow Jones EURO STOXX 50 Index for the past several years. The final payoff of this note is determined by the Dow Jones EURO STOXX 50 Index level correspond to a greater uncertainty in the final payout of this Return Optimization Security.

# Realized Payoff

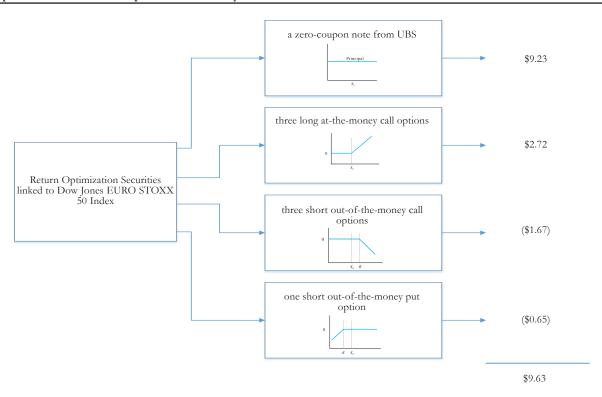
This note matured on July 31, 2008 and investors received \$8.01 per note.

## Reference Asset The Dow Jones EURO STOXX 50 Index's Implied Volatility



The annualized implied volatility of the Dow Jones EURO STOXX 50 Index on January 24, 2007 was 16.89%, meaning that options contracts on the Dow Jones EURO STOXX 50 Index were trading at prices that reflect an expected annual volatility of 16.89%. The higher the implied volatility, the larger the expected fluctuations of the Dow Jones EURO STOXX 50 Index level and of the Note's market value during the life of the Notes.

### Decomposition of this 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 Return Optimization Security.

- 1. Delta measures the sensitivity of the price of the note to the the Dow Jones EURO STOXX 50 Index level on January 24, 2007.

  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 Dow Jones EURO STOXX 50 Index on January 24, 2007.

  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.