FOR INSTITUTIONAL CLIENTS ONLY



SG MORNING NOTE: TRADE IDEA

This material is a product of Sales or Trading in the Global Markets Divison of Societe Generale (SG). This document is not a product of Societe Generale's research department and should not be regarded as a research report. It is only directed to Institutional Investors (as defined under FINRA Rule 2210 of the Financial Industry Regulatory Authority, Inc.) and available only to such Institutional Investors who have received the proper options risk disclosure.

Buy RTY Vol/Sell HY Vol

Contacts

Flow Strategy & Solutions Ramon Verastegui (1) 212 278 7548 ramon.verastegui@sgcib.com

Flow Strategy & Solutions James Hosker (1) 212 278 6291 james.hosker@sgcib.com

Flow Strategy & Solutions Shuwen Zhao (1) 212 278 7268 shuwen.zhao@sgcib.com

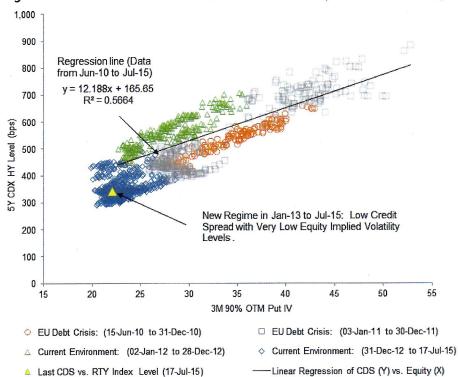
Flow Strategy & Solutions Robbert Van-Batenburg (1) 212 278 7972 robbert van-batenburg@sgcib.com

Flow Strategy & Solutions Aymen Boukhari (1) 212 278 7318

RTY volatility cheap relative to 5Y CDX HY protection.

- We coordinated with US credit trading on this trade idea with both Thomas Schreck and Ruben Marciano. The volatility compression in the Russell 2000 combined with low credit spreads in CDX HY has made relative value trades around the credit versus equity indices attractive.
- Figure 1 shows that both the 5Y CDX HY credit spread and Russell 2000 (RTY) 3M 90% OTM put implied volatility (IV) are currently at lows.
- RTY as a Hedge: With uncertainty around a permanent Greek deal; uncertainty around the Chinese government program to protect their equity market; and uncertainty around when the Fed "lift-off" will occur, RTY can act as a low cost hedge at these low implied volatility levels and provide a higher beta if the US market has a significant drop, especially going into September and October of 2015.

Figure 1: RTY 3M 90% OTM IV vs. 5Y CDX HY at Low Levels (15-Jun-10 to 17-Jul-15)



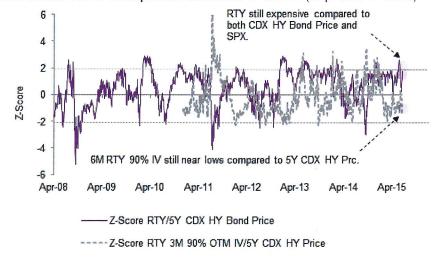
Source: SG Flow Strategy & Solutions, Bloomberg

IMPORTANT NOTICE: THE VALUE OF YOUR INVESTMENT MAY FLUCTUATE, THE FIGURES RELATING TO PAST PERFORMANCES AND SIMULATED PERFORMANCES REFER TO PAST PERFORMANCES AND ARE NOT A RELIABLE INDICATOR OF FUTURE RESULTS. THIS ALSO APPLIES TO HISTORICAL MARKET DATA

MARKET PARAMETERS:

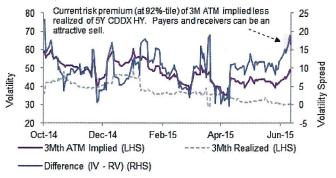
- Figure 2 shows that 6M trailing price ratio Z-Score shows that spot Russell 2000 (RTY) is rich compared to both 5Y CDX HY (also rich compared to S&P 500). Therefore, we could expect the RTY to sell-off. In addition, Figure 2 shows that the RTY 3M 90% OTM put implied volatility (IV) is low versus 5Y CDX HY level making buying volatility on RTY attractive. The current 3M 90% OTM Put IV level of 21.1% is at the 40%-tile range from Jun 2012 to Jun 2015.
- **Figure 3** shows that the current 3M risk premium (implied realized) is high, indicating it can be an attractive sell of call and puts on CDX HY Price index.

Figure 2: 6M Rolling Z-Score of RTY Spot is Expensive Relative to 5Y CDX HY Level while 3M 90% OTM IV is Inexpensive Relative the 5Y CDX HY (2-Apr-08 to 17-Jul-15)



Source: SG Flow Strategy & Solutions, Bloomberg

Figure 3: Current Risk Premium in ATM Payers & Receivers is High so Sell Them (7-Oct-14 to 17-Jul-15)



Source: SG Flow Strategy & Solutions, Bloomberg

MARKET PARAMETERS:

- Table 1 breaks-out the difference between the weights in the CDX HY vs. Russell 2000. The Russell has more Financials and Health Care and less Consumer Discretionary and Staples than the CDX HY.
- Finally, Table 2 shows the summary of RTY and 5Y CDX HY levels and current statistics.
 Table 2 shows that the spread between 3M ATM implied volatility for CDX HY vs. 3M realized volatility is much higher than for RTY.
- ATM implied volatility is 15.8% for the RTY and 49% for ATM 5Y CDX HY, making the current IV ratio 3.1 (near its highs at the 95%-tile historically). Current CDX HY IV is much higher RTY IV due to strong bids for Oct 2015 CDX HY protection. However, as shown in the Figure 4, the historical ratio has been closer to 2.5 for 5Y CDX HY ATM IV / RTY ATM IV.

Table 1: Breakout of Index Sector Weighting for CDX HY vs. Russell 2000 (Jul 2015)

Sector	5Y CDX HY	Russell 2000 (RTY)	Diff RTY - HY
Information Technology & Telecommunication Svc	14.0%	14.0%	0.0%
Materials	10.0%	5.9%	-4.1%
Financials	13.0%	25.5%	12.5%
Consumer Discretionary	32.0%	15.4%	-16.6%
Industrials	8.0%	12.2%	4.2%
Consumer Staples	10.0%	2.8%	-7.2%
Utilities	4.0%	4.4%	0.4%
Energy	5.0%	3.0%	-2.0%
Health Care	4.0%	16.7%	12.7%

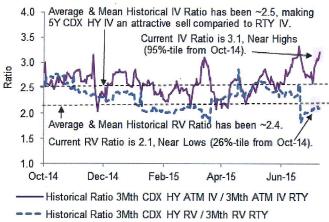
Source: SG Flow Strategy & Solutions, Bloomberg

Table 2: Summary of RTY and C5Y CDX HY Statistics (29-Ju1-0 to 16-Jul-15)

Summary of 3Mth RTY and CDX HY Stats (29-Jun-10 to 17-Jul-15)							
Field	Spot 5Y CDX HY Price (USD) Jun-10 to Jul-15	ATM IV (%)	RV (%) Jun-10	RTY 3M ATM IV (%) Jun-10 to Jul-15	3M RTY RV (%) Jun-10 to Jul-15		
Current	106.7	50.2	28.0	15.6	13.2		
%-tile	75.3%	63.7%	7.9%	2.1%	10.3%		
2W Chg	0.5	-1.8	2.9	-2.75	0.75		
1M Chg	0.9	3.3	-2.2	-0.94	0.88		

Source: SG Flow Strategy & Solutions, Bloomberg

Figure 4: Historical Ratio of ATM Implied Volatility and Realized Volatility of 5Y CDX HY / RTY (7-Oct-15 to 17-Jun-15)



Source: SG Flow Strategy & Solutions, Bloomberg

IMPORTANT NOTICE: THE VALUE OF YOUR INVESTMENT MAY FLUCTUATE. THE FIGURES RELATING TO PAST PERFORMANCES AND SIMULATED PERFORMANCES REFER TO PAST PERIODS AND ARE NOT A RELIABLE INDICATOR OF FUTURE RESULTS. THIS ALSO APPLIES TO HISTORICAL MARKET DATA

TRADES IMPLEMENTATIONS:

- Vega Neutral: Buy straddle on RTY and sell straddle on 5Y CDX HY vega neutral.
 - Credit: We sell \$100 million 5Y CDX HY 16-Oct-15 (3Mth) 105 strike straddle at 311 cents (generating \$3.11 million) and we buy 305 contracts of RTY 16-Oct-15 1270 straddle at \$81.5 for at total cost of \$2.4857 million. Net credit is \$624.25K (0.624% credit on \$100 million notional CDX HY straddles or 1.61% credit on the notional amount of RTY straddles with RTY ref. 1267.1). We assume 1 year of receiving the CDS coupon in this analysis.
 - > See Appendix for details on the calculation used in sizing this trade.
- Premium Neutral 5Y CDX HY vs. RTY: Higher vega exposure on RTY.
 - > Sell \$100 mill notional of the 5Y CDX HY 16-Oct-15 (3Mth) 105 put at 120 cents (generating \$1.20 million) & buy 262 contracts of the RTY 16-Oct-15 1270 put (premium \$45.8 with RTY ref. 1267.1).
 - > Sell \$100 mill notional of the 5Y CDX HY 16-Oct-15 (3Mth) 102 put at 64 cents (generating \$0.64 million) & buy 229 contracts of the RTY 16-Oct-15 1220 put (~4% OTM put with premium of \$27.9 and RTY ref. 1267.1).

APPENDIX:

- As shown in the Figure 4, the historical ratio has been 2.5 for 5Y CDX HY ATM IV / RTY ATM IV.
- Combined vega for 5Y CDX HY 16-Oct-15 straddle is 6.2 cents, which is \$62K on \$100 million notional. Therefore, we need 2.5 times the amount of the combined vega for the RTY straddle or \$155.0K where the vega of the RTY 16-Oct-15 1270 straddle is \$5.07, requiring buying 305 RTY straddle contracts.



IMPORTANT DISCLAIMER

This material is the product of Sales or Trading in the Global Markets Division of Societe Generale ("SG"). The material contains market commentary, trading strategy, trade ideas and/or information about SG products and services. It is not a product of the Research Department and should not be regarded as a research report. It is directed only to institutional investors (as defined under FINRA Rule 2210) and, when referencing options, is available only to such institutional investors who have received the proper options risk disclosure document and, when referencing security futures, is available only to such institutional investors who have received the proper security futures risk disclosure document. The securities and financial instruments discussed in this material may not be suitable for all institutional investors and investors must make their own investment decisions (using their part investment advisors are they may expose) and based institutional investors and investors must make their own investment decisions (using their own independent investment advisors as they may choose) and based upon specific financial situations and investment objectives. The financial instruments referred to in this material may not be eligible for sale in all jurisdictions and/or may be subject to certain investor qualification requirements in a number of jurisdictions. In addition, for the sole purpose of CFTC Rule 1.71(a)(9), to the extent the market or trading commentary contained herein includes an analysis of a price of a derivative and contains information reasonably sufficient to base a decision to enter into a derivatives transaction, it is conveyed as a solicitation for entering into a derivatives transaction.

Unless otherwise stated, any views or opinions expressed herein are solely those of the author and may differ from the views and opinions of the Research Department or other departments or divisions of SG and its affiliates. To the extent that this material contains short-term trade ideas based on macro views of economic or market conditions, they may differ from the longer-term views of the Research Department. This material is provided for information only and is not economic of market conditions, they may differ from the longer-term views of the Research Department. This material is provided to information only and is line intended as a recommendation or an offer or solicitation for the purchase or sale of any security or financial instrument. The information contained herein has been obtained from, and is based upon, sources believed to be reliable, but SG and its affiliates make no representation as to its accuracy and completeness. The views and opinions contained herein are those of the author of this material as of the date of this material and are subject to change without notice. Neither the author nor SG has any obligation to update, modify or otherwise notify the recipient in the event any information contained herein, including any opinion or view, changes or becomes inaccurate. Pricing levels, valuations and other data contained herein are indicative only and subject to change without notice. If this material references or mentions SG research, recipients are encouraged to read the full research report or note, which are available by accessing SG's Research Portal or by contacting

Recipients of this material should not consider the information contained herein to be objective or independent of SG's sales and trading businesses. As these are the views of an author in a specific sales or trading business, recipients should assume that the author of this material is an active participant in the markets, strategies and/or trading ideas contained herein.

SG and its affiliates and employees may have positions (long or short), effect transactions or make markets in any of the securities or financial instruments mentioned herein, or provide advice or loans to, or participate in the underwriting or restructuring of the obligations of, issuers mentioned herein. This material, including any data, may be considered by SG or any of its affiliates when deciding to buy or sell proprietary positions in any securities or financial instruments mentioned herein. SG and any of its affiliates may engage in transactions inconsistent with the views and opinions contained in this material and may sell to or buy from customers any of the securities or financial instruments mentioned herein on a principal or proprietary basis.

Unless expressly agreed in writing, SG, SG Americas Securities, LLC ("SGAS") and their affiliates (collectively, "SG and Affiliates") are not acting as an advisor or in an advisory capacity to any recipion to the document to proprietary the participate of the positions of the securities or financial instruments.

an advisory capacity to any recipient of this document. In particular, SG and Affiliates are not acting as your fiduciary under Section 15B of the Securities Exchange Act of 1934, as amended (the "Act"), and, unless we have agreed in writing to act as your municipal advisor, our relationship will not be subject to the provisions of such Section 15B, the rules there under, or the rules issued by the Municipal Securities Rulemaking Board that relate to the provision of advice to municipal entities or their obligated persons.

Transactions in derivative instruments involve numerous risks including, among others, market, counterparty default and liquidity risk. Please visit http://swapdisclosure.sgcib.com for important information with respect to swap transactions with SG. For information regarding swap transactions with SGAS, please visit http://www.sgasdisclosure.com.

Trading in options involves additional risks and is not suitable for all investors. An option may become worthless by its expiration date, as it is a depreciating asset. Option ownership could result in significant loss or gain, especially for options of unhedged positions. Prior to buying or selling an option, investors must review the "Characteristics and Risks of Standardized Options" at http://www.optionsclearing.com/about/publications/character-risks.jsp. Trading in security futures involves additional risks and is not suitable for all investors. Prior to buying or selling a security futures contract, investors must review the "Risk Disclosure Statement for

Security Futures Contracts' at http://www.nfa.futures.org/NFA-compliance/publication-library/security-futures-disclosure.pdf.

Exchange Traded Funds (ETFs) are redeemable only in specified units and only through a broker that is an authorized participant in that ETF program. SGAS acts an authorized participant for a number of ETF programs and participates in the creation and redemption of ETFs, including ETFs that may be referenced in this material. SGAS, as an authorized participant or otherwise, may acquire securities of issuers of ETFs for the purpose of resale. Redemptions are for the underlying securities. The public trading price of a redeemable unit of an ETF may be different from its net asset value. An ETF can trade at a discount or premium to the net asset value. There is always a risk of declining stock prices, which can cause investment losses. Clients should consider their investment objectives and the risks, charges and expenses of an ETF before investing. Each ETF prospectus contains such information and it is recommended that clients review such prospectus

charges and expenses of an ETF before investing. Each ETF prospectus contains such information and it is recommended that clients review such prospectus before investing. A copy of the prospectus for all ETFs mentioned in this material can be obtained from your SGAS salesperson at 245 Park Avenue, New York, NY 10187 or from Customer Service at 480 Washington Blvd., Jersey City, NJ 07310 (1-800-861-9789). Prospectuses are also available from ETF distributors. Clients should contact their salespersons to execute transactions through SGAS or an SG entity qualified in their home jurisdiction, unless governing law permits otherwise. SGAS is a registered broker-dealer, futures commission merchant (FCM) and swap dealer and is a member of FINRA, NYSE, NFA and SIPC. Please visit http://www.sgasdisclosure.com/ for important disclosures regarding SGAS and transactions you may enter into with SGAS.

Notice to French investors: This document is issued in France by or through Societe Generale, which is regulated by the Autorité des Marchés Financiers (AMF). Notice to U.K. investors: This document is issued in the U.K. by or through Societe Generale, which is a member of the London Stock Exchange. Notice to Japanese investors: This document is distributed in Japan by or through Societe Generale Recurities (North Pacific) Ltd., Tokyo Branch, which is regulated by the Financial Services Agency of Japan. The products mentioned in this report may not be eligible for sale in Japan and they may not be suitable for all types of Japanese investors. Notice to Australian investors: Societe Generale Australia Branch (ABN 71 092 516 286) takes responsibility for publishing this document is only directed to recipients who are aware that they are wholesale clients as defined under the Act.

Notice to Canadian Investors: This document is for information purposes only and is intended for use by Permitted Clients, as defined under National Instrument 31.

Notice to Canadian Investors: This document is for information purposes only and is intended for use by Permitted Clients, as defined under National Instrument 31-103. Use of this document by any other person is prohibited. The information contained in this document is only directed to recipients who are aware that they are wholesale clients as defined under the Act.

Additional information is available upon request. This material should not be reproduced or redistributed without the specific consent of SGAS, SG or its affiliates. Copyright: 2015 Societe Generale (SG), SGAS, and their affiliates. All rights reserved. www.sgcib.com