Change in reference data source to occur on September 30, 2017

10 August 2017

Reference data source to change starting Sep 30

Effective September 30, 2017, the reference data source used to compile the BofA Merrill Lynch Bond and Convertible Indices will change to ICE Data Services ("IDS"). Qualifying constituents for the month of October will be selected using the new source. Historical index constituencies and returns will be unaffected by this change.

Change in data source expected to have minimal impact

Based on our pro-forma analysis, the change in reference data source will have an immaterial impact on the composition and risk structure of the indices. Projected changes in market value, yield and duration for a selection of our most important indices covering a wide range of our bond universe are provided in Table 1 below. With such a close match on the index structure, and given that we are not changing our primary price source (currently IDS1), we also do not anticipate any material impact on the total return performance of the indices going forward.

Table 1: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing)

| | | # bonds | | | # bonds | % chq # | % chq | Chg Dur to worst | Chg YTW |
|-------------------|--------|---------|-----|--------|-----------|---------|--------|---------------------|------------|
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | (yrs) | (bps) |
| Global Broad IG | GBMI | 24,832 | 84 | 186 | 24,730 | -0.4% | -0.1% | 0.01 | -0.01 |
| Global Govt | W0G1 | 1,000 | 0 | 0 | 1,000 | 0.0% | 0.1% | 0.00 | -0.01 |
| US Broad IG | US00 | 13,832 | 23 | 53 | 13,802 | -0.2% | -0.2% | 0.00 | 0.00 |
| US Corp IG | C0A0 | 7,377 | 20 | 21 | 7,376 | 0.0% | -0.2% | 0.00 | -0.01 |
| Euro Broad IG | EMU0 | 4,730 | 20 | 15 | 4,735 | 0.1% | -0.4% | -0.01 | -0.01 |
| Euro Corp IG | ER00 | 2,574 | 7 | 7 | 2,574 | 0.0% | 0.1% | -0.02 | -0.02 |
| Sterling Broad IG | UK00 | 1,141 | 8 | 0 | 1,149 | 0.7% | 0.1% | 0.01 | 0.00 |
| US Muni | U0A0 | 17,299 | 2 | 89 | 17,212 | -0.5% | -0.3% | 0.00 | 0.01 |
| Global HY | HW00 | 3,137 | 22 | 22 | 3,137 | 0.0% | -0.2% | 0.00 | -0.04 |
| US HY | H0A0 | 1,880 | 12 | 15 | 1,877 | -0.2% | -0.2% | 0.01 | 0.00 |
| Euro HY | HE00 | 475 | 3 | 2 | 476 | 0.2% | -0.1% | -0.01 | 0.00 |

Source: BofA Merrill Lynch Bond Indices

Bond Indices Global

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Access to BofA Merrill Lynch Bond Indices

On Bloomberg

IND<GO>

On Mercury (institutional client website):

www.baml.com/mercury

Public website: www.mlindex.ml.com

BofA Merrill Lynch Index Hotline:

New York: +1 646 556 2900 London: +44 20 7995 3927 Email: mlindex@ml.com

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Timestamp: 10 August 2017 11:45AM EDT

¹ Evaluated prices are provided by the IDS business, Interactive Data Pricing and Reference Data, LLC.

Change in reference data source

Effective September 30, 2017, the reference data source used to compile the BofA Merrill Lynch Bond and Convertible Indices will change to ICE Data Services ("IDS"). Qualifying constituents for the month of October will be selected using the new source. In addition, we will switch to using Price/Yield calculators provided by the IDS BondEdge analytics platform.

Based on our pro-forma comparisons of index constituencies as of August 31, 2017 using the current and new reference data sources and Price/Yield calculators ("Pro-Forma Analyses"), the impact on the composition and risk structure of the indices is expected to be immaterial when the source change is implemented. Detailed comparisons provided in this report for a wide range of indices covering the full spectrum of our bond universe show that the projected changes in market value, yield and duration will generally be minimal. With such a close match on the index structure, and given that we are not changing our primary price source (currently IDS²), we also do not anticipate any material impact on the total return performance of the indices going forward.

The following sections provide Pro-Forma Analyses for each of our major markets of coverage.

- High yield indices (p 4)
- US High Grade Indices (p 5)
- Europe High Grade Indices (p 6)
- Global and other Regional High Grade Indices (p 7)
- US Municipal Securities Indices (p 8)
- Emerging Markets Indices (p 9)
- Contingent Capital, Convertible and Preferred Indices (p 10)

Other important changes in constituent data

Country of Risk

As a part of the switch to IDS reference data we will be adopting a modified rule for determining a constituent security's country of risk as outlined below. The new methodology is not a major departure from the current approach. Nonetheless there will be some differences that result from implementation of the new methodology. The new methodology is as follows:

- Sovereign debt (both local and foreign currency debt): the country of risk is the same as the issuing country
- Agency and Local Authority debt: the country of risk is the country in which the obligor resides
- Supranational debt: the country of risk is "Supranational"

² Evaluated prices are provided by the IDS business, Interactive Data Pricing and Reference Data, LLC.

- Collateralized and securitized asset classes: the country of risk is based on the location of the underlying collateral
- Corporate debt: the country of risk is based on the physical location of the issuer's operating headquarters with the following exceptions:
 - Holding company issuers are assigned a country of risk based on the location of the majority of operating assets. If no single country represents a majority of operating assets, or if this cannot be determined, the country or risk is the issuer's operating headquarters
 - Bank branch issues are assigned the country of risk of the parent entity
- Securities with a guarantee are assigned the guarantor's country of risk
- For indirect corporate and government issuers such as Sukuks and loan participation notes, the country of risk is based on the obligor
- Convertible securities are assigned the country of risk of the underlying equity.
 The equity country of risk is assigned in the same manner as Corporate debt as described above.

Issuer ratings

For quasi-government securities, in the absence of an individual bond rating from any of the three major rating agencies (Moody's, S&P and Fitch) our composite rating algorithm makes use of issuer ratings, where available. Our current reference data source has derived issuer ratings based on ratings of other individual bonds from the same issuer. Going forward we will no longer make use of derived issuer ratings and will only use issuer ratings that have been assigned by the three rating agencies themselves. This change will have the greatest impact in the Japan Quasi-Government sector where roughly 100 constituents currently in the index have no bond or issuer ratings from any of the three rating agencies.

High Yield Indices

Our Pro-Forma Analysis shows that that the Global High Yield Index would see a total of 44 constituent changes (out of 3,137). The projected turnover would cause a 0.2% change in market value, with yield decreasing 4bp and no change in duration. The differences in the US High Yield Index are comparable, with just 27 changes in constituent bonds out of a universe of close to 2,000. Of those changes, 6 are attributed to our modified country of risk methodology described on pages 2 and 3 of this report. Most of the key global, US and European high yield indices in Table 2 below are estimated to see changes in market value, yield and duration of 0.05%/0.05 years or less.

Table 2: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) - key High Yield indices

| | | | | | # bonds | | | Chg Dur | Chg |
|--|--------|---------|-----|--------|---------|---------|--------|----------|-------|
| | | # bonds | | | pro- | % chg # | % chg | to worst | YTW |
| Index | Ticker | current | Add | Remove | forma | bonds | MktVal | (yrs) | (bps) |
| Global Indices: | | | | | | | | | |
| Global High Yield Index | HW00 | 3,137 | 22 | 22 | 3,137 | 0.0% | -0.2% | 0.00 | -0.04 |
| Global High Yield Constrained Index | HW0C | 3,137 | 22 | 22 | 3,137 | 0.0% | -0.2% | 0.00 | -0.04 |
| Global ex-US Issuers High Yield Constrained Index | HXUS | 1,498 | 18 | 17 | 1,499 | 0.1% | -0.2% | 0.01 | -0.06 |
| US Indices: | | | | | | | | | |
| US High Yield Index | H0A0 | 1,880 | 12 | 15 | 1,877 | -0.2% | -0.2% | 0.01 | 0.00 |
| US High Yield Constrained Index | HUC0 | 1,880 | 12 | 15 | 1,877 | -0.2% | -0.2% | 0.01 | 0.00 |
| 0-5 Year US High Yield Constrained Index | HUCD | 854 | 7 | 8 | 853 | -0.1% | -0.2% | 0.01 | 0.01 |
| BB US High Yield Index | H0A1 | 832 | 6 | 11 | 827 | -0.6% | -0.8% | 0.01 | -0.03 |
| Single-B US High Yield Index | H0A2 | 727 | 6 | 4 | 729 | 0.3% | 0.4% | 0.01 | 0.02 |
| CCC & Lower US High Yield Index | H0A3 | 321 | 2 | 2 | 321 | 0.0% | 0.0% | 0.02 | 0.04 |
| BB-B US High Yield Index | H0A4 | 1,559 | 10 | 13 | 1,556 | -0.2% | -0.3% | 0.01 | 0.00 |
| US Fallen Angel High Yield Index | H0FA | 233 | 0 | 2 | 231 | -0.9% | 0.0% | 0.02 | 0.04 |
| US Distressed High Yield Index | H0DI | 111 | 2 | 1 | 112 | 0.9% | 0.5% | -0.01 | -0.04 |
| US Cash Pay High Yield Index | J0A0 | 1,855 | 15 | 15 | 1,855 | 0.0% | -0.2% | 0.00 | 0.01 |
| US Cash Pay High Yield Constrained Index | JUC0 | 1,855 | 15 | 15 | 1,855 | 0.0% | -0.2% | 0.00 | 0.01 |
| BB-B US Cash Pay High Yield Constrained Index | JUC4 | 1,556 | 10 | 13 | 1,553 | -0.2% | -0.3% | 0.01 | 0.00 |
| US High Yield Energy Index | H0EN | 318 | 3 | 2 | 319 | 0.3% | 0.4% | -0.03 | -0.07 |
| US High Yield Metals & Mining Index | H0ME | 88 | 1 | 0 | 89 | 1.1% | -0.3% | -0.02 | 0.05 |
| US Diversified Crossover Corporate Index | XOVD | 4,533 | 22 | 17 | 4,538 | 0.1% | 0.1% | 0.03 | -0.02 |
| Europe Indices: | | | | | | | | | |
| European Currency High Yield Index | HP00 | 606 | 4 | 3 | 607 | 0.2% | 0.0% | -0.01 | 0.01 |
| European Currency High Yield Constrained Index | HPC0 | 606 | 4 | 3 | 607 | 0.2% | 0.0% | -0.02 | 0.01 |
| European Currency Non-Financial High Yield 3% Constrained Index | HPID | 506 | 2 | 2 | 506 | 0.0% | 0.0% | -0.02 | 0.00 |
| European Currency High Yield Excluding Subordinated Financials Constrained Index | HPS2 | 546 | 2 | 2 | 546 | 0.0% | -0.1% | -0.02 | 0.00 |
| Euro High Yield Constrained Index | HEC0 | 475 | 3 | 2 | 476 | 0.2% | -0.1% | -0.01 | 0.00 |
| Euro High Yield Index | HE00 | 475 | 3 | 2 | 476 | 0.2% | -0.1% | -0.01 | 0.00 |
| BB Euro High Yield Index | HE10 | 322 | 1 | 1 | 322 | 0.0% | -0.1% | 0.00 | -0.04 |
| Single-B Euro High Yield Index | HE20 | 125 | 3 | 2 | 126 | 0.8% | 0.0% | -0.01 | 0.02 |
| CCC & Lower Euro High Yield Index | HE30 | 28 | 1 | 1 | 28 | 0.0% | -0.4% | -0.12 | 0.76 |
| BB-B Euro High Yield Constrained Index | HEC4 | 447 | 3 | 2 | 448 | 0.2% | 0.0% | -0.01 | -0.03 |
| BB-B Euro Non-Financial High Yield Constrained Index | HEC5 | 375 | 3 | 1 | 377 | 0.5% | 0.1% | -0.01 | -0.03 |
| Sterling High Yield Index | HL00 | 131 | 1 | 1 | 131 | 0.0% | 0.0% | -0.04 | 0.06 |

US High Grade Indices

A Pro-Forma Analysis of the US Broad Market Index shows that it would have fewer than 100 constituents change out of a universe of almost 14,000. The estimated turnover rate is so small that there is no impact on the index yield or duration. The same is true of the main segment of the Index with the Corporate, ABS, CMBS, Foreign Government and Taxable Muni sector yields and durations all within +/-0.01. And, based on the Pro-Forma Analysis, there would be no changes at all in the constituencies of the US Treasury and MBS indices.

Table 3: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) – key US investment grade indices

| | | # bonds | | | # bonds | % chg # | % chg | Chg Dur to | Chg YTW |
|---|--------|---------|-----|--------|-----------|---------|--------|-------------|---------|
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | worst (yrs) | (bps) |
| US Broad Market Index | US00 | 13,832 | 23 | 53 | 13,802 | -0.2% | -0.2% | 0.00 | 0.00 |
| US Corporate, Government & Mortgage Index | D0A0 | 9,576 | 23 | 31 | 9,568 | -0.1% | -0.1% | 0.00 | 0.00 |
| US Corporate & Government Index | B0A0 | 9,055 | 26 | 31 | 9,050 | -0.1% | -0.2% | 0.00 | -0.01 |
| US Treasury Index | G0Q0 | 255 | 0 | 0 | 255 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Mortgage Backed Securities Index | M0A0 | 410 | 0 | 0 | 410 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Fixed Rate Asset Backed Securities Index | R0A0 | 1,557 | 0 | 10 | 1,547 | -0.6% | 0.2% | -0.01 | -0.01 |
| US Fixed Rate CMBS Index | CMBS | 2,702 | 0 | 14 | 2,688 | -0.5% | -0.9% | 0.01 | -0.01 |
| US Foreign Government & Supranational Index | GS00 | 697 | 5 | 7 | 695 | -0.3% | -1.7% | 0.01 | -0.01 |
| US Taxable Municipal Securities Index | DQTM | 300 | 0 | 0 | 300 | 0.0% | 0.0% | 0.01 | 0.00 |
| US Corporate Index | C0A0 | 7,377 | 20 | 21 | 7,376 | 0.0% | -0.2% | 0.00 | -0.01 |
| US Financial Index | CF00 | 1,757 | 1 | 11 | 1,747 | -0.6% | -0.7% | -0.01 | -0.01 |
| US Industrial Index | C100 | 4,671 | 16 | 10 | 4,677 | 0.1% | -0.1% | -0.01 | 0.00 |
| US Utility Index | C0Q0 | 949 | 5 | 2 | 952 | 0.3% | 0.3% | -0.02 | -0.06 |
| US Auto Group Index | CIAU | 201 | 0 | 0 | 201 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Banking Index | C0P0 | 1,078 | 1 | 6 | 1,073 | -0.5% | -0.5% | -0.02 | -0.01 |
| US Consumer Goods Index | CICS | 448 | 0 | 0 | 448 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Corporate Basic Industry Index | CIBS | 386 | 0 | 0 | 386 | 0.0% | -0.5% | 0.03 | 0.00 |
| US Corporate Capital Goods Index | CICP | 393 | 1 | 0 | 394 | 0.3% | 0.1% | 0.00 | 0.00 |
| US Energy Index | CIEN | 849 | 1 | 4 | 846 | -0.4% | -0.5% | -0.01 | -0.01 |
| US Financial Services Index | CFFS | 248 | 1 | 2 | 247 | -0.4% | -1.5% | 0.00 | -0.01 |
| US Healthcare Index | CHCR | 586 | 1 | 2 | 585 | -0.2% | -0.1% | -0.01 | 0.00 |
| US Insurance Index | CFIE | 431 | 1 | 5 | 427 | -0.9% | -1.1% | 0.04 | -0.01 |
| US Leisure Index | CILE | 30 | 0 | 0 | 30 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Media Index | CIME | 239 | 0 | 0 | 239 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Real Estate Index | CIRE | 321 | 1 | 5 | 317 | -1.2% | -1.4% | -0.10 | -0.01 |
| US Retail Index | CIRL | 265 | 1 | 0 | 266 | 0.4% | 0.1% | 0.00 | 0.00 |
| US Services Index | CISE | 123 | 1 | 0 | 124 | 0.8% | 0.2% | 0.01 | 0.01 |
| US Technology & Electronics Index | CITE | 386 | 0 | 0 | 386 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Telecommunications Index | C0R0 | 215 | 3 | 0 | 218 | 1.4% | 0.6% | -0.01 | 0.00 |
| US Transportation Index | C0W0 | 229 | 9 | 1 | 237 | 3.5% | 2.2% | -0.08 | -0.02 |

Europe High Grade Indices

The Euro Broad Market Index Pro-Forma Analysis shows 35 out of 4,730 constituent changes with a 0.01 year change in duration and a 1bp change in yield. In the Non-Financials segment, most of the sector sub-indices would have just a few bonds turn over. The rate of turnover is slightly higher in the Financials segment but the impact on market value (unch.), duration (-0.03 years) and yield (-3bp) are also slight. The Sterling Broad Market Index Pro-Forma Analysis shows 8 constituent changes leading to a 0.01 year change in duration and no change in yield. No changes are anticipated in either the Euro Government or UK Gilt Indices.

Table 4: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) - key Europe investment grade indices

| | | # bonds | | | # bonds | % chg # | % chg | | Chg YTW |
|---|--------|---------|-----|--------|-----------|---------|--------|-------------|---------|
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | worst (yrs) | (bps) |
| Euro Indices: | | | | | | | | | |
| Euro Broad Market Index | EMU0 | 4,730 | 20 | 15 | 4,735 | 0.1% | -0.4% | -0.01 | -0.01 |
| Euro Government Index | EG00 | 341 | 0 | 0 | 341 | 0.0% | -1.1% | -0.03 | -0.01 |
| Euro Quasi-Government Index | EQ00 | 976 | 10 | 6 | 980 | 0.4% | 1.0% | 0.14 | 0.01 |
| Euro Securitized/Collateralized Index | EL00 | 839 | 4 | 3 | 840 | 0.1% | 0.5% | -0.02 | -0.01 |
| Euro Corporate Index | ER00 | 2,574 | 7 | 7 | 2,574 | 0.0% | 0.1% | -0.02 | -0.02 |
| Euro Financial Index | EB00 | 838 | 4 | 5 | 837 | -0.1% | 0.0% | -0.03 | -0.03 |
| Euro Non-Financial Index | EN00 | 1,736 | 4 | 3 | 1,737 | 0.1% | 0.1% | -0.02 | -0.01 |
| Euro Industrials Index | EJ00 | 1,413 | 4 | 3 | 1,414 | 0.1% | 0.1% | -0.02 | -0.01 |
| Euro Auto Group Index | EJAU | 140 | 0 | 0 | 140 | 0.0% | -0.5% | 0.01 | 0.00 |
| Euro Basic Industry Index | EJBS | 168 | 2 | 0 | 170 | 1.2% | 1.2% | 0.00 | 0.00 |
| Euro Capital Goods Index | EJCP | 97 | 0 | 2 | 95 | -2.1% | -1.7% | -0.09 | -0.05 |
| Euro Consumer Goods Index | EJCS | 162 | 0 | 0 | 162 | 0.0% | 0.0% | 0.00 | 0.00 |
| Euro Energy Index | EJEN | 122 | 1 | 2 | 121 | -0.8% | 0.0% | -0.02 | 0.00 |
| Euro Healthcare Index | EJHC | 117 | 0 | 0 | 117 | 0.0% | 0.0% | -0.05 | -0.02 |
| Euro Leisure Index | EJLE | 9 | 0 | 0 | 9 | 0.0% | 0.0% | 0.00 | 0.00 |
| Euro Media Index | EJME | 39 | 2 | 1 | 40 | 2.6% | 2.1% | -0.06 | -0.02 |
| Euro Real Estate Index | EJRE | 125 | 2 | 0 | 127 | 1.6% | 1.8% | -0.02 | -0.01 |
| Euro Retail Index | EJRL | 50 | 0 | 0 | 50 | 0.0% | 0.0% | 0.00 | 0.00 |
| Euro Services Index | EJSE | 37 | 1 | 3 | 35 | -5.4% | -7.2% | 0.05 | 0.05 |
| Euro Telecommunications Index | EJTC | 164 | 0 | 0 | 164 | 0.0% | 0.0% | 0.00 | 0.00 |
| Euro Technology & Electronics Index | EJTE | 44 | 0 | 0 | 44 | 0.0% | 0.0% | -0.08 | 0.00 |
| Euro Transportation Index | EJTR | 139 | 1 | 0 | 140 | 0.7% | 1.1% | 0.01 | 0.00 |
| Euro Utility Index | EK00 | 323 | 0 | 0 | 323 | 0.0% | 0.5% | -0.03 | -0.03 |
| Sterling Indices: | | | | | | | | | |
| Sterling Broad Market Index | UK00 | 1,141 | 8 | 0 | 1,149 | 0.7% | 0.1% | 0.01 | 0.00 |
| UK Gilt Index | G0L0 | 41 | 0 | 0 | 41 | 0.0% | 0.0% | 0.00 | 0.00 |
| Sterling Non-Gilt Index | UN00 | 1,100 | 8 | 0 | 1,108 | 0.7% | 0.4% | 0.05 | 0.01 |
| Sterling Corporate & Collateralized Index | UC00 | 931 | 6 | 0 | 937 | 0.6% | 0.4% | 0.03 | 0.01 |
| Sterling Corporate Index | UR00 | 745 | 3 | 0 | 748 | 0.4% | 0.2% | 0.01 | 0.00 |

Global and other Regional High Grade Indices

The Global Broad Market Index Pro-Forma Analysis shows a total of just 270 constituent changes out of a current universe of almost 25,000 bonds. We do not anticipate any changes in the Global Government and Global Inflation-Linked Indices. Among the regional indices not covered in the previous section of this report, Japan would see the most changes. However, most of the removals are the result of the change in methodology concerning quasi-government issuer ratings as described on page 3 of this report.

Table 5: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) – key Global and other Regional investment grade indices

| | | # bonds | | | # bonds | % chg # | % chg | Chg Dur to | Chg YTW |
|--|--------|---------|-----|--------|-----------|---------|--------|-------------|---------|
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | worst (yrs) | (bps) |
| Global Broad Market Index | GBMI | 24,832 | 84 | 186 | 24,730 | -0.4% | -0.1% | 0.01 | -0.01 |
| Global Government Index | W0G1 | 1,000 | 0 | 0 | 1,000 | 0.0% | 0.1% | 0.00 | -0.01 |
| Global Inflation-Linked Government Index | W0GI | 129 | 0 | 0 | 129 | 0.0% | 0.3% | 0.00 | 0.00 |
| Global Corporate Index | G0BC | 12,979 | 52 | 47 | 12,984 | 0.0% | -0.1% | -0.01 | -0.01 |
| Australia Broad Market Index | AUD0 | 535 | 1 | 2 | 534 | -0.2% | -0.5% | -0.01 | 0.00 |
| Australia Corporate Index | AUC0 | 271 | 0 | 0 | 271 | 0.0% | 0.6% | -0.01 | 0.00 |
| Australia Quasi-Government Index | AUQ0 | 242 | 1 | 2 | 241 | -0.4% | -1.4% | -0.03 | -0.01 |
| Canada Broad Market Index | CAN0 | 1,381 | 21 | 14 | 1,388 | 0.5% | -1.7% | 0.00 | -0.01 |
| Canadian Provincial & Municipal Index | G0CP | 457 | 16 | 4 | 469 | 2.6% | -1.9% | -0.06 | -0.02 |
| Canada Corporate Index | F0C0 | 891 | 5 | 10 | 886 | -0.6% | -2.9% | 0.10 | 0.00 |
| Japan Broad Market Index | JP00 | 2,300 | 5 | 97 | 2,208 | -4.0% | 0.8% | 0.03 | 0.00 |
| Japan Government Index | G0Y0 | 270 | 0 | 0 | 270 | 0.0% | 1.5% | 0.01 | 0.00 |
| Japan Corporate Index | JC00 | 503 | 5 | 0 | 508 | 1.0% | 2.1% | -0.05 | -0.03 |
| Japan Quasi-Government Index | JQ00 | 1,527 | 0 | 97 | 1,430 | -6.4% | -10.2% | 0.14 | 0.01 |

US Municipal Securities Indices

The Pro-Forma Analysis shows fewer than 100 changes in the constituency of the 17,000+ bond US Municipal Securities Index (U0A0). Most of the differences are concentrated in the Local Municipal Securities Index (U0AB), but even that index would see very modest changes in duration (-0.02 years) and yield (+3bp). The turnover rate will be slightly higher in the Municipal High Yield Index (U0HY), but also with very minor changes in duration (-0.04 years) and yield (-4bp) (based on the Pro-Forma Analysis).

Table 6: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) - key US Municipal securities indices

| | | | | | | | | Chg Dur | |
|--|--------|---------|-----|--------|-----------|---------|--------|----------|---------|
| | | # bonds | | | # bonds | % chg # | % chg | to worst | Chg YTW |
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | (yrs) | (bps) |
| US Taxable Municipal Securities Plus Index | TXBL | 9,433 | 14 | 52 | 9,395 | -0.4% | -0.2% | -0.01 | -0.01 |
| US Municipal Securities Index | U0A0 | 17,299 | 2 | 89 | 17,212 | -0.5% | -0.3% | 0.00 | 0.01 |
| US General Obligation Municipal Securities Index | U0AG | 5,386 | 1 | 39 | 5,348 | -0.7% | -0.3% | 0.00 | 0.01 |
| US State Municipal Securities Index | U0AA | 2,919 | 7 | 6 | 2,920 | 0.0% | -0.1% | 0.01 | 0.00 |
| US Local Municipal Securities Index | U0AB | 2,461 | 5 | 57 | 2,409 | -2.1% | -0.9% | -0.02 | 0.03 |
| US Insured Bond Municipal Securities Index | U0D0 | 1,241 | 2 | 17 | 1,226 | -1.2% | -0.8% | -0.09 | 0.11 |
| US Pre-Refunded Municipal Securities Index | U0AF | 891 | 0 | 3 | 888 | -0.3% | -0.2% | 0.00 | 0.00 |
| California Including Puerto Rico Municipal Securities Index | U0C0 | 2,901 | 0 | 20 | 2,881 | -0.7% | -0.3% | -0.02 | 0.02 |
| California Long-Term Core Plus Municipal Securities Index | UCAP | 943 | 0 | 5 | 938 | -0.5% | -0.5% | 0.00 | 0.00 |
| National Long-Term Core Plus Municipal Securities Index | UNAP | 5,348 | 0 | 24 | 5,324 | -0.4% | -0.2% | 0.00 | 0.01 |
| New York Including Puerto Rico Municipal Securities Index | U0N0 | 2,911 | 1 | 9 | 2,903 | -0.3% | -0.2% | 0.00 | 0.01 |
| New York Long-Term Core Plus Municipal Securities Index | UNYP | 897 | 0 | 2 | 895 | -0.2% | -0.2% | 0.01 | 0.02 |
| US Non-Refunded Airport Municipal Securities Index | UPAV | 688 | 0 | 0 | 688 | 0.0% | -0.1% | 0.00 | 0.02 |
| US Non-Refunded Education Municipal Securities Index | UPAE | 992 | 0 | 0 | 992 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Non-Refunded Health Municipal Securities Index | UPHL | 1,086 | 0 | 4 | 1,082 | -0.4% | -0.3% | 0.02 | 0.07 |
| US Non-Refunded Hospital Municipal Securities Index | UPAH | 446 | 0 | 3 | 443 | -0.7% | -0.6% | 0.03 | 0.04 |
| US Non-Refunded Industrial Revenue Municipal Securities Index | UPID | 100 | 0 | 0 | 100 | 0.0% | 0.0% | 0.01 | 0.05 |
| US Non-Refunded Leasing & Rental Municipal Securities Index | UPAL | 1,020 | 1 | 1 | 1,020 | 0.0% | 0.1% | 0.00 | 0.02 |
| US Non-Refunded Miscellaneous Municipal Securities Index | UPAM | 172 | 0 | 0 | 172 | 0.0% | 0.0% | 0.00 | 0.00 |
| US Non-Refunded Multi-Family Municipal Securities Index | UPMH | 128 | 0 | 5 | 123 | -3.9% | -3.8% | -0.12 | 0.05 |
| US Non-Refunded Pollution Control Municipal Securities Index | UPAQ | 74 | 0 | 0 | 74 | 0.0% | 1.0% | -0.01 | 0.06 |
| US Non-Refunded Power Municipal Securities Index | UPOW | 518 | 0 | 0 | 518 | 0.0% | 0.2% | 0.00 | 0.00 |
| US Non-Refunded Single-Family Housing Municipal Securities Index | UPSH | 139 | 0 | 0 | 139 | 0.0% | 3.2% | 0.20 | -0.01 |
| US Non-Refunded Tax Revenue Municipal Securities Index | UPTX | 1,966 | 0 | 20 | 1,946 | -1.0% | -1.4% | -0.02 | 0.02 |
| US Non-Refunded Tobacco Municipal Securities Index | UPTB | 92 | 0 | 0 | 92 | 0.0% | -0.4% | -0.16 | -0.08 |
| US Non-Refunded Toll & Turnpike Municipal Securities Index | UPTL | 696 | 0 | 9 | 687 | -1.3% | -1.4% | -0.02 | 0.01 |
| US Non-Refunded Transportation Municipal Securities Index | UPAT | 1,162 | 0 | 1 | 1,161 | -0.1% | -0.2% | 0.00 | 0.01 |
| US Non-Refunded Utility Municipal Securities Index | UPUT | 994 | 1 | 1 | 994 | 0.0% | 0.2% | -0.01 | 0.00 |
| US Non-Refunded Water Municipal Securities Index | UPAW | 849 | 0 | 1 | 848 | -0.1% | -0.3% | 0.03 | 0.02 |
| US Non-Refunded Revenue Municipal Securities Index | UPAR | 11,122 | 2 | 45 | 11,079 | -0.4% | -0.4% | 0.00 | 0.02 |
| US Municipal High Yield Securities Index | U0HY | 1,407 | 0 | 14 | 1,393 | -1.0% | -0.4% | -0.04 | 0.08 |

Emerging Markets Indices

Our Pro-Forma Analysis indicates the Emerging Markets external sovereign indices would only see a few changes in their constituent holdings. Turnover would be a little higher in the external non-sovereign indices with a total of 16 bonds added and 12 removed (based on the Pro-Forma Analysis).

Table 7: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) – key Emerging Markets indices

| | | | | <u> </u> | | | | Chg Dur | |
|---|--------|---------|-----|----------|-----------|---------|--------|----------|---------|
| | | # bonds | | _ | # bonds | % chg # | % chg | to worst | Chg YTW |
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | (yrs) | (bps) |
| Emerging Markets External Sovereign Index | EMGB | 550 | 1 | 3 | 548 | -0.4% | -1.3% | -0.10 | -0.04 |
| BBB & Lower Sovereign External Debt Index | IP00 | 458 | 1 | 2 | 457 | -0.2% | -1.7% | -0.11 | -0.04 |
| BBB & Lower Sovereign USD External Debt Index | IGOV | 394 | 1 | 2 | 393 | -0.3% | -1.9% | -0.11 | -0.03 |
| 0-5 Year EM USD Government Bond ex-144a Index | EMSG | 203 | 1 | 3 | 201 | -1.0% | -0.5% | 0.01 | 0.02 |
| Emerging Markets Corporate Plus Index | EMCB | 2,036 | 16 | 12 | 2,040 | 0.2% | -0.3% | 0.00 | -0.08 |
| Diversified High Yield US Emerging Markets Corporate Plus Index | EMLH | 610 | 10 | 12 | 608 | -0.3% | -0.4% | 0.03 | -0.18 |
| Local Debt Markets Plus Index | LDMP | 500 | 3 | 0 | 503 | 0.6% | 1.8% | 0.11 | -0.02 |
| Diversified Local Emerging Markets Non-Sovereign Index | LOCL | 279 | 3 | 2 | 280 | 0.4% | -0.5% | -0.04 | -0.02 |
| Asian Dollar High Yield Corporate Index | ACHY | 225 | 1 | 5 | 221 | -1.8% | -5.8% | -0.06 | 0.01 |
| Asian Dollar Investment Grade Corporate Index | ACIG | 645 | 5 | 3 | 647 | 0.3% | 0.2% | 0.01 | 0.00 |

Contingent Capital, Convertible and Preferred Indices

Our Pro-Forma Analysis indicates four bonds would be removed from the Contingent Capital Securities Index with all of the changes taking place in the high yield component. There would be a comparable number of changes in the Convertible and Preferred Securities Indices.

Table 8: Pro-forma impact on index structure (based on projected August 31, 2017 rebalancing) – key Contingent Capital, Convertible and Preferred securities indices

| | | # bonds | | | # bonds | % chg # | % chg | Chg Dur to | Chg YTW |
|---|--------|---------|-----|--------|-----------|---------|--------|-------------|---------|
| Index | Ticker | current | Add | Remove | pro-forma | bonds | MktVal | worst (yrs) | (bps) |
| Contingent Capital Securities Indices: | | | | | | | | | |
| Contingent Capital Index | COCO | 150 | 0 | 4 | 146 | -2.7% | -1.3% | 0.08 | -0.01 |
| High Yield Contingent Capital Index | COHY | 113 | 0 | 4 | 109 | -3.5% | -1.7% | 0.11 | -0.02 |
| USD Investment Grade Contingent Capital Index | COCU | 26 | 0 | 0 | 26 | 0.0% | 0.0% | 0.00 | 0.00 |
| Euro Investment Grade Contingent Capital Index | COCE | 10 | 0 | 0 | 10 | 0.0% | 0.0% | 0.00 | 0.03 |
| GBP Investment Grade Contingent Capital Index | COCG | 1 | 0 | 0 | 1 | 0.0% | 0.0% | 0.00 | 0.00 |
| Convertible Securities Indices: | | | | | | | | | |
| US Convertible Index | VXA0 | 431 | 4 | 5 | 430 | -0.2% | 1.1% | -0.09 | -0.25 |
| Global 300 Convertible Index | VG00 | 300 | 2 | 2 | 300 | 0.0% | 4.1% | -0.17 | -0.22 |
| Preferred Securities Indices: | | | | | | | | | |
| Core Plus Fixed Rate Preferred Securities Index | P0P4 | 300 | 4 | 1 | 303 | 1.0% | -0.2% | 0.19 | -0.04 |
| Fixed Rate Preferred Securities Index | P0P1 | 225 | 2 | 1 | 226 | 0.4% | -0.1% | 0.00 | 0.02 |

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