Guideline relating to

Solactive USD High Yield Corporates Total Market Index Solactive USD High Yield Corporates Total Market PR Index Solactive USD High Yield Corporates Total Market in CAD TR Index Solactive USD High Yield Corporates Total Market Hedged to CAD TR Index

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Introduction

This document is to be used as a guideline with regard to the composition, calculation and management of the Solactive USD High Yield Corporates Total Market Index, Solactive USD High Yield Corporates Total Market PR Index, Solactive USD High Yield Corporates Total Market in CAD TR Index and the Solactive USD High Yield Corporates Total Market Hedged to CAD TR Index. Any changes made to the guideline are initiated by the Committee specified in section 1.6. The Solactive USD High Yield Corporates Total Market Indices are the sole property of Solactive AG. The Solactive USD High Yield Corporates Total Market Indices are the sole property of Solactive AG. The solactive USD High Yield Corporates Total Market Indices are calculated and published by Solactive AG. The name "Solactive" is copyrighted.

1 Index specifications

The Solactive USD High Yield Corporates Total Market Indices are rules-based, market value weighted indices engineered to mirror the performance of High Yield rated corporate bonds denominated in USD. The issuers' domicile is not relevant. The Solactive USD High Yield Corporates Total Market Index will be distributed as a Total Return Index (i.e. coupon payments will be reinvested in the index on each Adjustment day) and as a Price Return Index (i.e. coupon payments will not be considered in the index). The Solactive USD High Yield Corporates Total Market TR Index converted to CAD. The Solactive USD High Yield Corporates Total Market TR Index converted to CAD. The Solactive USD High Yield Corporates Total Market Hedged to CAD TR Index is a currency hedged version of the Solactive USD High Yield Corporates Total Market Index.

1.1 Name and ISIN

The Solactive USD High Yield Corporates Total Market Indices are distributed under the following symbols:

Name	ISIN	Reuters RIC	Bloomberg Ticker
Solactive USD High Yield Corporates Total Market Index	DE000SLA2M23	.SOLHYCTM	SOLHYCTM Index
Solactive USD High Yield Corporates Total Market PR Index	DE000SLA44N5	.SOLHYCPR	n/a
Solactive USD High Yield Corporates Total Market in CAD TR Index	DE000SLA4551	.SOLHYCCA	n/a
Solactive USD High Yield Corporates Total Market Hedged to CAD			
TR Index	DE000SLA4569	.SOLHYCCH	SOLHYCCH Index

1.2 Initial value

The Solactive USD High Yield Corporates Total Market Index will be calculated every Business Day starting on the 31st of August 2016. Before this date the index values are backfilled until the 29th of December 2006, with the index value based on 1000 as at the close of trading on the 31st of August 2016.

The Solactive USD High Yield Corporates Total Market PR Index, the Solactive USD High Yield Corporates Total Market in CAD TR Index and the Solactive USD High Yield Corporates Total Market Hedged to CAD TR Index will be calculated every Business Day starting on the 2nd of January 2018. Before this date the index values are backfilled until the 30th of December 2011, with the index values based on 1000 as at the closing of trading on the 2nd of January 2018.

1.3 Distribution

The Solactive USD High Yield Corporates Total Market Indices are published via the price marketing services of Boerse Stuttgart AG and is distributed to all affiliated vendors.

1.4 Prices and calculation frequency

The Solactive USD High Yield Corporates Total Market Indices are calculated based on the Evaluated Bid Price (see 4.2 Further Definitions) of the respective Index Components, whereas newly added bonds are added at the Evaluated Ask Price. The indices are calculated and distributed once every Business Day. Bond and index analytical values are calculated each Business Days using the Last Evaluated Price.

Updated index values and other statistics will not be distributed. In the event that the data required for index calculation purposes is not available or that there are troubles regarding the price marketing of Solactive AG or Stuttgart Stock exchange the index cannot be distributed.

1.5 Weighting

The Index Components of the Solactive USD High Yield Corporates Total Market Index are weighted according to their respective Market Values in proportion to the aggregated Market Value of all Index Components in the index (Initial MV Weight). At the respective Selection Day prior to the Adjustment Day, issuer weights are capped at 3%. Excess weights will be redistributed on a pro rata basis among issuers whose weights are less than 3%. The process is iterated until no issuer has a weight higher than 3%. The resulting weights are referred to as final issuer capped weight. The final issuer capped weights are assigned to the issuer's bonds based on their Market values in proportion to the aggregated Market Value of the issuer. The resulting weights are referred to as Bond Target Weight.

The capping factor for bond i is calculated as follows:

 $CapFactor_{i} = \frac{BondT \arg etWeight_{i}}{InitialMVWeight_{i}}$

The resulting cap factor is also applied to the Index Components of the Solactive USD High Yield Corporates Total Market PR Index, Solactive USD High Yield Corporates Total Market in CAD TR Index and Solactive USD High Yield Corporates Total Market Hedged to CAD TR Index.

1.6 Decision-making bodies

A Committee composed of staff from Solactive AG is responsible for decisions regarding the composition of the Solactive USD High Yield Corporates Total Market Indices, as well as any amendments to the rules (hereinafter referred to as the "**Committee**" or the "**Index Committee**"). The Committee will also determine the future composition of the Solactive USD High Yield Corporates Total Market Indices if any Extraordinary Event (see chapter 2.3) occurs, as well as the implementation of any necessary adjustments.

Members of the Committee can recommend at any time changes to the composition of the Index or to the guideline and submit them to the Committee for approval. Any change of the guideline will be announced on the web page http://www.solactive.com.

1.7 Publication

All specifications and information relevant for calculating the index are made available on the http://www.solactive.com web page and sub-pages.

1.8 Historical data

Historical data will be maintained from the 29th of December 2006¹.

1.9 Licencing

Licences to use the index as the underlying value for derivative instruments are issued to stock exchanges, banks, financial services providers and investment houses by Solactive AG.

¹ For simulated index levels until 31st of August 2016, Issuer Amounts as of August 2016 have been used as part of the selection criteria.

2 Composition of the Index

2.1 Selection of the Index Components

At the launch of the indices, all financial instruments which meet the requirements of the Selection Pool are eligible for inclusion in the index. Instruments issued prior to the Selection Day and which meet the criteria of the Selection Pool as defined under 4.1 will be added on the monthly Adjustment Day to the Selection Pool. Additionally, on the monthly Selection Day, the Index Committee will evaluate whether all current Index Components still meet the requirements of the Selection Pool. Any Index Components that do not pass this screen will be removed from the Index on the next Adjustment day.

Extraordinary adjustments are possible as described under 2.3.

2.2 Ordinary adjustment

The compositions of the indices are ordinarily reviewed on the Selection Day. Any change to the index will be implemented on the Adjustment Day.

2.3 Extraordinary adjustment

The Index Committee will decide about the future composition and the implementation of any necessary adjustments of the Solactive USD High Yield Corporates Total Market Indices if an Extraordinary Event (early redemption, credit event etc.) affecting one or more index constituents occurs. See details under 3.3 Adjustments

The Index Committee will decide on the future composition of the Solactive USD High Yield Corporates Total Market Indices as well as the Business Day which marks the starting of the new adjusted index composition.

3 Calculation of the Index

3.1.1 Index formula

The Solactive USD High Yield Corporates Total Market Indices are indices whose value reflects the relative changes in bond values. Therefore, the composition and weighting is adjusted every month.

The total return version is calculated as followed:

$$Index_{t} = Index_{n} \frac{MarketValue_{t} + PaidCash_{t}}{BaseValue_{n}}$$

$$MarketValue_{t} = \sum_{i=1}^{a} (Dirty \operatorname{Pr}ice_{i,t} + CPAdj_{i,t}) \cdot Amount_{i,n} \cdot Capfactor_{i,rb} \cdot FX_{i,t}$$

$$PaidCash_{t} = \sum_{i=1}^{a} Coupon_{i,t} \cdot Amount_{i,n} \cdot Capfactor_{i,rb} \cdot FX_{i,t}$$

$$BaseValue_{n} = \sum_{i=1}^{a} (Dirty \operatorname{Pr}ice_{i,n} + CPAdj_{i,i}) \cdot Amount_{i,n} \cdot Capfactor_{i,rb} \cdot FX_{i,n}$$

The price return index is calculated as followed:

$$Index_{t} = Index_{n} \frac{MarketValue_{t}}{BaseValue_{n}}$$
$$MarketValue_{t} = \sum_{i=1}^{a} CleanPrice_{i,t} \cdot Amount_{i,n} \cdot Capfactor_{i,rb} \cdot FX_{i,t}$$

$$BaseValue_{n} = \sum_{i=1}^{a} Clean \operatorname{Pr}ice_{i,n} \cdot Amount_{i,n} \cdot Capfactor_{i,rb} \cdot FX_{i,n}$$

Whereas:

Index _t	= Value of the index on Business Day t.
Index _n	= Value of the index on the last Adjustment Day n.
CPAdj _{i,t}	= Variable Coupon Adjustment Factor i on Business Day t is 0 if a bond enters the index during an ex- dividend period. If the bond is already in the index during the ex-dividend period, the Variable Coupon Adjustment Factor equals the coupon amount.
$Dirty \operatorname{Price}_{i,t}$	= Dirty Price of the bond i on Business Day t, whereas Dirty Price t is the sum of the clean price of the bond i on Business Day t and the accrued interest on Business Day t.

$Dirty \operatorname{Price}_{i,n}$	= Dirty Price of the bond i on the last Adjustment Day n, whereas Dirty Price is the sum of the clean price of the bond i on the last Adjustment Day n and the accrued interest on the last Adjustment Day n.
$Amount_{i,n}$	= Amount Outstanding of the respective bond as defined on the last Adjustment Day n.
PaidCash	 a) Value of the coupon payments between Adjustment Days.
	 b) If a bond i will be removed from the index between Adjustment Days, the resulting payment of the bond will be included in the Paid Cash component of the index. On the next Adjustment Day "Paid Cash" will be reinvested in the index.
<i>Coupon</i> _{<i>i</i>,<i>t</i>}	= Coupon payment of bond i between payment date and Adjustment Day n. In case there is no
	coupon payment, Coupon i,t is 0.
$Capfactor_{i,rb}$	= Weighting Cap Factor of portfolio component i determined on Selection day rb, to cap the weighting as described under Index Weighting

The currency hedged version of the price return index is calculated as followed:

$$I_{t} = I_{RT-1} \cdot \left(1 + \left(\frac{UI_{t}}{UI_{RT-1}} - 1 \right) + HIM_{t} \right)$$

with

I_t= Index value on Business Day tI_RT-1= Index value on the last Rebalancing Date immediately preceding tUI_t= Underlying Index value on Business Day tUI_RT-1= Underlying Index value on the last Rebalancing Date immediately preceding tHIM_t= Hedge Impact on Business Day t

The Hedge Impact is calculated using the following formula:

$$HIM_{t} = AF_{RT-1} \cdot \sum_{i=1}^{n} W_{i,ST-1} \cdot S_{i,ST-1}^{m} \cdot \left(\frac{1}{F_{i,RT-1}^{m}} - \frac{1}{IF_{i,t}^{m}}\right)$$

with

AF_RT-1

= Adjustment Factor on the last Rebalancing Date immediately preceding t which is calculated as follows:

$$AF_{RT-1} = \frac{I_{ST-1}}{I_{RT-1}}$$

with

I_ST-1	= Index value on the last Reference Day immediately preceding or equal to RT-1
I_RT-1	= Index value on the last Rebalancing Day immediately preceding t

n

= number of different currencies in the Underlying Index (without considering the currency in which the index is calculated),

= Weight of currency i on the last Reference Date immediately preceding or equal to RT-1
= Mid Spot of currency i on day t
= Mid Forward of currency i on the last Rebalancing Date immediately preceding t
= Interpolated Forward on day t which is calculated as follows:

$$IF_{i,t}^{m} = S_{i,t}^{m} + \left(F_{i,t}^{m} - S_{i,t}^{m}\right) \cdot \frac{D - d}{D}$$

with

D = number of calendar days between RT-1 and RT d = number of calendar days between RT-1 and t

3.2 Accuracy

The values of the indices will be rounded to two decimal places.

According to the terms of the bond, the Index Calculator will take the following conventions into account: Act/Act Act/360 Act/365 30/360 ISMA 30/360

The indices do not take taxes into account and assumes gross coupon payments.

Accrued interests are calculated with settlement convention t+0.

3.3 Adjustments

Indices need to be adjusted for systematic changes in prices once these become effective. The Committee will decide from time to time if the Solactive USD High Yield Corporates Total Market Indices need to be adjusted.

The following corporate actions will result in changes or adjustments to an index as indicated below between Adjustment Days:

(a) Early Redemption or Full Call: The bond proceeds will be held as "Paid Cash" and reinvested into the index on the following Adjustment Day. For the avoidance of doubt a Tender must be mandatory, the pure offer to tender a bond will not lead to an adjustment of the index.*

(b) Flat Trading: A bond is marked as flat trading if the bond issuer will not meet its coupon payment obligation. This means that the buyer of a bond is not responsible for paying the interest that has accrued since the last payment. If a bond is defined to be "flat trading" between two Adjustment Days the respective accrued interests and coupons will be set to 0. The bond will not be removed until the next Adjustment Day.

(c) Defaulted Bonds: If the status of a bond changes to "In Default", the bond will remain as part of the index or portfolio at the last available evaluated price provided by the pricing source until the next regular index adjustment day.

(d) Exchange Offers:

- 1) Optional Exchange Offers: Optional Exchange Offers will not result in an adjustment of the index.
- 2) Mandatory Exchanges Offers:
 - a. In case more than 90% of the Amount Outstanding is exchanged the exchange will be considered in the index calculation by exchanging the relevant bonds, so that the new bond will receive the weight of the old exchanged bond.
 - b. In the case when less than 90% of the Amount Outstanding is exchanged the exchange will not be considered to be an event that affects the relevant bond's position in the index.

(e) Fungible Bonds:

- The parent bond and the sub-tranche are both index constituents: Both bonds are kept in the index until the next Adjustment Day. On the next Adjustment Day, the new bond will be removed and the Amount Outstanding of the parent bond will be increased by the amount of the new bond issue.
- 2) The parent bond is an index constituent and the sub-tranche is not: On the next Adjustment Day, the Amount Outstanding of the parent bond will be increased by the amount of the sub-tranche.
- 3) The parent bond is not an index constituent but the sub-tranches: On the next Adjustment Day, the sub-tranche leaves the index and the parent bond enters the index including the Amount Outstanding added from the sub-tranche (assuming that it meets the requirements of the Selection Pool).

(f) Payment-in-Kind Bonds: These bonds pay interest in additional bonds rather than in cash. Assuming the additional bonds will be sold immediately and the proceeds will be reinvested in the index, payments-in-kind are therefore considered as cash in the Paid Cash component in all Total Return calculations.

(g) Ex-dividend Bonds: "Ex-dividend" means that the next coupon is detached from the bond several days in advance of the coupon payment date. Between ex-date and pay-date a buyer of the bond does not get the right to receive the next coupon. Therefore, accrued interest is negative during that period. However, the coupon will be paid to the original bondholder, i.e. if a bond is already in the index the next coupon payment is held separate in the Variable Coupon Adjustment Factor CPAdj_{i,t}. If the bond enters the index during the ex-dividend period CPAdj_{i,t} is zero as the next coupon payment will not accrue to the index.

*For the avoidance of doubt, an optional tender or exchange offer may lead to an index adjustment after the end of the submission period. In case the tender or exchange has been successful for at least 90% of the Amount Outstanding, the bond will be removed from the index/exchanged into the relevant bond.

4. Definitions

4.1 index-specific definitions

The "Selection Pool" comprises bonds that fulfill the following conditions:

- Market Issue: Corporate debt only. The following market types are excluded: Government debt, quasi-sovereign debt, debt guaranteed or backed by governments, REGS securities, municipal bonds, Brady bonds and restructured bonds, private placements except 144A series.
- Bond Type: Fixed coupon bonds, step-up bonds driven by rating or where the coupon schedule is known at issuance, medium term note ("MTNs"), callable and puttable bonds, 144A securities are eligible for inclusion. The following bond types are excluded: zero coupon bonds, floating/variable coupon bonds, convertibles, inflation-linked bonds, perpetual bonds, accrued only bonds, Eurobonds, sinker, step-up bonds not driven by rating or step-up bonds where the coupon schedule is not known at issuance, Pay-in kind bonds
- Collateral Type: Covered bonds/notes are excluded.
- Country of risk: Bonds with country of risk classified as developed markets by Solactive Index committee are eligible. The following countries are classified as developed markets as of August 2016: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Iceland, Ireland, Italy, Japan, Greece, Luxembourg, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, United Kingdome, United States
- Time to maturity: Must have at least 1 year to maturity on each Adjustment day. Bonds newly added to the Index must have a time to maturity of at least 20 months.
- Time to maturity at issuance: Must have 15 years or less time to maturity at issuance.
- Currency: US Dollar denominated.
- Issue Amount Outstanding: At least USD 400 million.
- Issuer total remaining principal amount outstanding of all bonds from the issuer: at least USD 1 bn.
- Credit rating: Must be rated by at least one of these 3 rating agencies: Standard & Poor's, Moody's and Fitch. The composite rating calculated from available ratings among the three should be sub investment grade, i.e. composite rating between BB+ and C (both inclusive). Please see the "Composite and Average Rating Calculation" section for composite rating calculation.
- Full Call/Full Tender rule: All bonds for which a full call or a full tender offer is announced with the effective date in the upcoming month will be excluded from the index composition on the selection day. For the avoidance of doubt, bonds which will not be fully redeemed (due to a call/tender) during the next month and meet all other index criteria are eligible to join the index on the next selection day.

"Underlying Index" of the Solactive USD High Yield Corporates Total Market Hedged to CAD TR Index is the Solactive USD High Yield Corporates Total Market PR Index

The "Weight" of each currency is determined at the Reference Date and is calculated as the sum of the weights of each Underlying Index component denominating in the same currency

"Reference Date" is the last business day of each month and therefore equal to the Adjustment Day

4.2 Further definitions

"Adjustment Day" is the last Business Day of each month.

"Amount Outstanding" is the face value of the respective bond.

A "Business Day" in relation to the index is each day on which New York Stock Exchange is open for trading.

"Call" means that a bond with a callable feature will be redeemed before the actual maturity date of the bond. The callable feature allows the issuer of the bond to retain the privilege of redeeming the bond before the actual maturity date.

Composite and Average Rating Calculation

Bond ratings from Standard & Poor's, Fitch and Moody's are mapped to numerical ratings between 1 and 22 as below:

SP	Moody	Fitch	Numerical
AAA	Aaa	AAA	1
AA+	Aa1	AA+	2
AA	Aa2	AA	3
AA-	Aa3	AA-	4
A+	A1	A+	5
А	A2	А	6
A-	A3	A-	7
BBB+	Baa1	BBB+	8
BBB	Baa2	BBB	9
BBB-	Baa3	BBB-	10
BB+	Ba1	BB+	11
BB	Ba2	BB	12
BB-	Ba3	BB-	13
B+	B1	B+	14
В	B2	В	15
В-	B3	В-	16
CCC+	Caa1	CCC+	17
CCC	Caa2,caa	CCC	18
CCC-	Caa3	CCC-	19
CC	Са	CC	20
С	С	С	21
D,SD	D	D,SD	22

Composite numerical rating of a bond is calculated as the average numerical ratings from all available ratings, rounded to signal digit, with .5 rounded up. The composite numerical rating can then be mapped to a composite rating in string as below:

Numerical	Rating
AAA	1
AA+	2
AA	3
AA-	4
A+	5
А	6
A-	7
BBB+	8
BBB	9
BBB-	10
BB+	11
BB	12
BB-	13
B+	14
В	15
B-	16
CCC+	17
CCC	18
CCC-	19
CC	20
С	21
D	22

"Convertible Bonds" are bonds that can be converted into a predetermined amount of the company's equity at certain times during its life.

"Covered Bonds" are bonds backed by cash flows or mortgages or public sector loans.

A "Credit Event" is the suspension of debt service, insolvency or failure to pay on time.

"Early Redemption" includes every event that leads to a redemption of a bond before the actual maturity date.

"Ex-dividend" means that the next coupon is detached from the bond several days in advance of the coupon payment date.

"Exchange Offer" means that the holder of a bond is invited to exchange the existing bond to another debt security.

In particular an "Extraordinary Event" is

- an early redemption of the bond
- a credit event

"Fixed Coupon Bonds" are bonds with a fixed coupon rate, as opposed to floating rate coupons.

A bond is marked as **"Flat Trading"** if the bond issuer will not meet its coupon payment obligation. This means that the buyer of a bond is not responsible for paying the interest that has accrued since the last payment.

"Floating Rate Bonds" are bonds with a variable or floating interest rate, i.e. coupons fluctuate in line with the underlying level of interest rates, as opposed to fixed-rate coupons.

A **"Fungible Bond"** is a new issue that has all the same specifications as an existing issue (bonds with the same parameters can be issued in different tranches). At a specific date, the tranches will be combined into one bond. After this date, the parent tranche will include the Amount Outstanding of all new tranches.

A bond is "In Default" when the issuer is not able to fulfil its bond payment obligations anymore after the 30 days grace period.

The "Index Calculator" is Solactive AG or any other appropriately appointed successor in this function.

"Index Components" are all bonds in the Selection Pool.

The "Index Currency" is USD.

"Inflation-linked Bonds" are bonds whose principal is indexed to inflation.

"Issuer" is the issuing entity of the respective bond.

"Last Evaluated Price" generally is (aside from the rules referred to in "Extraordinary Events") the last available Evaluated Bid Price.

"Evaluated Ask Price" is the last available Ask Price evaluated by the designated Pricing Provider.

"Paid Cash" is either the value of the coupon payments between Adjustment Days or the resulting payment when a bond is removed from the index between Adjustment Days. On the next Adjustment Day "Paid Cash" will be reinvested in the index.

"Payment-In-Kind Bonds" are a type of bonds that pay interest in additional bonds rather than in cash.

"Preferred Securities" combine both debt and equity characteristics.

"Securitized Bonds" are bonds secured against specific assets or receivables (ABS), mortgages (MBS) or cash flows.

"Selection Day" is a Business Day 3 Business Days prior to the Adjustment Day. If the Selection Day happens to be Christmas Eve the new composition is fixed 1 Business Day in advance.

"Sinking Fund Bonds" are bonds that are backed by a fund that sets aside money on a regular basis. A sinkable bond issuer is required to buy a certain amount of the bond back from the purchaser at various points throughout the life of the bond.

"Step-Up Coupon Bonds" are bonds whose coupons increase while the bond is outstanding. The coupon amounts are determined at issuance.

"Tender Offer" means that a holder of a bond is invited to tender the bond for a specific price at a specific time before the actual maturity date.

A **"Total Return Index"** measures the performance of the index components by assuming that all distributions are reinvested into the index, i.e. the index does not only reflect pure price movements.

"Zero Coupon Bonds" do not pay interest but are issued at a discount.

5 Appendix

5.1 Contact data

Information regarding the Solactive USD High Yield Corporates Total Market Index concept

Solactive AG Guiollettstr. 54 60325 Frankfurt am Main Tel.: +49 69 9760 955 00 Fax: +49 69 9760 955 25 indexing@solactive.com

5.2 Calculation of the Index – change in calculation method

The application by the index calculator of the method described in this document is final and binding. The index calculator shall apply the method described above for the composition and calculation of the index. However, it cannot be excluded that the market environment, supervisory, legal, financial or tax reasons may require changes to be made to this method. The index calculator may also make changes to the terms and conditions of the index and the method applied to calculate the index, which he deems to be necessary and desirable in order to prevent obvious or demonstrable error or to remedy, correct or supplement incorrect terms and conditions. The index calculator is not obliged to provide information on any such modifications or changes. The Index calculator will make announcements regarding the amendment of the index guideline. Despite the modifications and changes the index calculator will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.