

# INDEX GUIDELINE

Solactive US Preferred Share Select Hedged to  
CAD Index (NTR)

Version 1.2

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This document contains the underlying principles and regulations regarding the structure and the operating of the Solactive Equal Weight US Bank Index Canadian Dollar Hedged (the “Index”). Solactive AG shall make every effort to implement regulations. Solactive AG does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of the Index nor the Index value at any certain point in time nor in any other respect. The Index is merely calculated and published by Solactive AG and it strives to the best of its ability to ensure the correctness of the calculation. There is no obligation for Solactive AG – irrespective of possible obligations to issuers – to advise third parties, including investors and/or financial intermediaries, of any errors in the Index. The publication of the Index by Solactive AG is no recommendation for capital investment and does not contain any assurance or opinion of Solactive AG regarding a possible investment in a financial instrument based on this Index.

# Introduction

This document (the “Guideline”) is to be used as a guideline with regard to the composition, calculation and maintenance of the Solactive US Preferred Share Select Hedged to CAD Index (NTR) (the “Index”). Any amendments to the rules made to the Guideline are approved by the Oversight Committee specified in Section 5.5. The Index is owned, calculated, administered and published by Solactive AG (“Solactive”) assuming the role as administrator (the “Index Administrator”) under the Regulation (EU) 2016/1011 (the “Benchmark Regulation” or “BMR”). The name “Solactive” is trademarked.

## 1 Index specifications

The Index tracks the performance of the Solactive US Preferred Share Select 2 Index (NTR) Index and hedges the currency exposure to Canadian Dollars on a monthly basis via FX forward contracts.

The Index is published in Canadian Dollar [CAD].

### 1.1 Short name and ISIN

The Index is distributed under ISIN DE000SLA25W5; the WKN is SLA25W. The Index is published in Reuters under the code <.SOLUSPFH > and in Bloomberg under the code < SOLUSPFH Index>.

### 1.2 Initial value

The Index is based on 100 at the close of trading on the start date, January, 2 2012.

### 1.3 Distribution

The Index is published on the website of the Index Administrator ([www.solactive.com](http://www.solactive.com)) and is, in addition, available via the price marketing services of Boerse Stuttgart GmbH and may be distributed to all affiliated vendors.

### 1.4 Prices and calculation frequency

The price of the Index is calculated on each Trading Day based on the prices on the respective Exchanges on which the Index Components are listed. The most recent prices of all Index Components are used. Prices of Index Components not listed in the Index Currency are converted using the current Intercontinental Exchange (the „ICE“) spot foreign exchange rate. Should there be no current price available for an index component, the most recent price or the trading price for the preceding Trading Day is used in the calculation.

In addition to the intraday calculation a closing level of the Index for each Calculation Day is also calculated. This closing level is based on the Closing Price for the Underlying Index and 4 pm London time WM Spot and Forward Fixings quoted by Reuters. If there is no 4 pm London time WM Fixing for the relevant Calculation Day, the last available 4pm London time WM Fixing will be used for the closing level calculation.

The Index is calculated every Trading Day from 9:00am to 4:30pm, EST. In the event that data cannot be provided to Reuters or to the pricing services of Boerse Stuttgart GmbH the Index cannot be distributed.

Any incorrect calculation is adjusted on a retrospective basis.

## **1.5 Weighting**

The Index is always fully invested in Canadian Dollars.

## **1.6 Decision-making bodies**

A Committee composed of staff from Solactive AG is responsible for decisions regarding the composition of the Index as well as any amendments to the rules (in this document referred to as the "Committee" or the "Index Committee"). The future composition of the Index is determined by the Committee on the Selection Days according to the procedure outlined in 2.1 of this document. The Committee shall also decide about the future composition of the Index, if any Extraordinary Events should occur and the implementation of any necessary adjustments.

Members of the Committee can recommend changes to the guideline and submit them to the Committee for approval.

## **1.7 Publication**

All specifications and information relevant for calculating the Index are made available on the <http://www.solactive.de> web page and sub-pages.

## **1.8 Historical data**

Historical data is available from the Index start date on January,2 2012.

## **1.9 Licensing**

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.

## **2 Composition of the Index**

### **2.1 Selection of the Index Components**

The initial composition of the Index as well as any ongoing adjustment is based on the calculation formulae outlined in section 3.

### **2.2 Ordinary adjustment**

The composition of the Index is adjusted monthly on the Adjustment Day.

The first adjustment will be made in March, 2017 based on the Prices of the Index Components on the Adjustment Day and the Trading Day immediately preceding the Adjustment Day.

## 3 Calculation of the Index

### 3.1 Index formula

The Index Value on a Trading Day at the relevant time is calculated in accordance with the following formula:

$$HI_t = HI_{RT} \cdot \left( 1 + \left( \frac{UI_t}{UI_{RT}} - 1 \right) + HIM_t \right)$$

with:

$HI_t$  = Hedged Index on Trading Day t

$HI_{RT}$  = Hedged Index on the Adjustment Day RT immediately preceding Trading Day t

$UI_t$  = Underlying Index on Trading Day t

$UI_{RT}$  = Underlying Index on the Adjustment Day RT immediately preceding Trading Day t

$HIM_t$  = Hedge Impact on Trading Day t, calculated according to the following formula:

$$HIM_t = AF_{RT} \cdot S_{RT-1}^m \cdot \left( \frac{1}{F_{RT}^m} - \frac{1}{IF_t^m} \right)$$

with:

$AF_{RT}$  = Adjustment Factor on Trading Day t, calculated according to the following formula:

$$AF_{RT} = \frac{HI_{RT-1}}{HI_{RT}}$$

with:

$HI_{RT-1}$  = Hedged Index on the Trading Day immediately preceding Adjustment Day RT

$S_{RT-1}^m$  = CAD/USD mid spot rate on the Trading Day immediately preceding Adjustment Day RT

$F_{RT}^m$  = CAD/USD 1 month forward mid rate on the Adjustment Day RT

$IF_t^m$  = CAD/USD 1 month interpolated forward mid rate on Trading Day t, calculated as

$$IF_t^m = S_t^m + (F_t^m - S_t^m) \cdot \frac{D-d}{D}$$

with:

$S_t^m$  = CAD/USD mid spot rate on Trading Day t

$F_t^m$  = CAD/USD 1 month forward mid rate on Trading Day t

$D$  = number of calendar days between the last and the next Adjustment Day

$d$  = number of calendar days between the last Adjustment Day and Trading Day t

### 3.2 Accuracy

The value of the Index will be rounded to 2 decimal places.

Foreign exchange rates will be rounded to six decimal places.

### 3.3 Calculation of the Index in the event of a Market Disruption Event

The Index is not calculated in the event of a Market Disruption Event. If the Market Disruption Event continues over a period of eight Trading Days, then the Committee will determine the necessary action (including but not limited to taking into account the market conditions prevailing at this point in time, the last quoted Prices for each of the Index Components as well as any other conditions that it deems relevant for calculating the Index value) such that the affected securities resulting from the Market Disruption Event are no longer causing such disruption to occur.

## 4. Definitions

**“Index Component”** is each FX component currently included in the Index.

A **“Trading Day”** is a day on which New York Stock Exchange is open for trading.

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

The **“Index Currency”** is CAD.

The **“Underlying Index”** is the Solactive US Preferred Share Select 2 Index (NTR)

**“Adjustment Day”** is the last Trading Day of each month.

A **“Market Disruption Event”** occurs if

1. the underlying index is not published on a Trading Day
2. the respective FX rates are not published on a Trading Day

## 5 Appendix

### 5.1 Contact data

#### Information regarding the Index concept

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### 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. 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.