

GUIDELINE

Solactive Artificial Intelligence Performance-Index

Version 1.1 dated January 10, 2018



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This document contains the underlying principles and regulations regarding the structure and the operating of the Solactive Artificial Intelligence Performance-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 is to be used as a guideline with regard to the composition, calculation and management of the Index. Any changes made to the guideline are initiated by the Committee specified in section 1.6. The Index is calculated and published by Solactive AG. The name “Solactive” is trademarked.

1 Index specifications

The Solactive Artificial Intelligence Performance-Index (the “Index”) is an Index of Solactive AG and is calculated and distributed by Solactive AG. It tracks the price movements of the companies that show considerable economic exposure to the Artificial Intelligence Segment. The valuation and analysis of the Index are conducted by Solactive AG in consultation with the Index Advisor (section 4.2 of the Guideline)

The Index is adjusted semi-annually and constructed as a Performance Index.

The Index is published in US-Dollar.

1.1 Short name and ISIN

The Index is distributed under ISIN DE000SLA3VQ9; the WKN is SLA3VQ. The Index is published on Reuters under the code < .SOLAINR >.

1.2 Initial value

The Index is based on 100 at the close of trading on the start date, September 18, 2017.

1.3 Distribution

The Index is published via the price marketing services of Boerse Stuttgart AG and is distributed to all affiliated vendors. Each vendor decides on an individual basis as to whether he will distribute/display the Index via his information systems.

1.4 Prices and calculation frequency

The price of the Index is calculated on each Business 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 translated using spot foreign exchange rates quoted by Reuters. Should there be no current price available on Reuters, the most recent price or the Trading Price on Reuters for the preceding Trading Day is used in the calculation.

The Index is calculated every Business Day from 9:00am to 10:30pm, CET and distributed every 60 seconds. In the event that data cannot be provided to Reuters or to the pricing services of Boerse Stuttgart AG the Index cannot be distributed.

1.5 Weighting

On each Adjustment Day each Index Component of the Index is weighted equally.

1.6 Decision-making bodies

A Committee composed of staff from Solactive AG and the Index Advisor is responsible for the 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 Index 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 will be maintained from the launch of the Index on September 18, 2017.

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 following rules:

On the Selection Day, the Index Committee selects between 14 and 20 companies (each included) from the Index Universe based on the following criteria:

1. Score: The following five criteria are used to calculate the Score, based on which the final index composition will be selected:
 - a. Free Cash Flow in the last fiscal year (FCF):
 - i. 10 points if FCF > 500 million USD
 - ii. 20 points if FCF > 2 billion USD
 - iii. 30 points if FCF > 5 billion USD
 - iv. 40 points if FCF > 10 billion USD
 - b. Revenue Growth in the last five fiscal years (RG):
 - i. 10 points if RG > 10 %
 - ii. 20 points if RG > 20 %
 - iii. 30 points if RG > 30 %
 - c. Research and Development Expenditures in the last fiscal year (R&D)
 - i. 10 points if R&D > 500 million USD
 - ii. 20 points if R&D > 2 billion USD
 - iii. 30 points if R&D > 5 billion USD
 - iv. 40 points if R&D > 10 billion USD
 - d. Profit Margin in the last fiscal year (PM)
 - i. 10 points if PM > 10 %
 - ii. 20 points if PM > 20 %
 - iii. 30 points if PM > 30%
 - e. Cash position in the last fiscal year (CP)
 - i. 10 points if CP > 500 million USD
 - ii. 20 points if CP > 2 billion USD
 - iii. 30 points if CP > 5 billion USD
 - iv. 40 points if CP > 10 billion USD

The total Score is a sum of points of the five criteria a. - e.

2. The shares are filtered according to their total score.
3. From each under 1. a)-e) mentioned criteria, a minimum of 2 to 5 and a maximum of 5 to 10 companies are selected subject to the following limitations:

Sector	Number of firms
AI Application, AI Industries	5 to 10
AI Hardware (Platforms)	2 to 5
AI Software (Platforms)	5 to 10
Big Data (Platforms)	2 to 5

The number of shares in each sector is selected according to the segment's economic significance. The assessment of the economic significance is conducted by the Index Committee in consultation with the Index Advisor.

2.2 Ordinary adjustment

The composition of the Index is adjusted semi-annually. The new Index members are determined on the Selection Day and weighted according to 1.5 of this document on the Adjustment Day. In absence of any Extraordinary Adjustments, new Index weights will only be implemented on the semi-annual Adjustment Dates.

The first adjustment is made in March 2018.

Solactive AG shall publish any changes made to the Index composition on the Selection Day and consequently with sufficient notice before the Adjustment Day on the web page www.solactive.com.

2.3 Extraordinary adjustment

An extraordinary adjustment, if applicable, is triggered and applied in compliance with the rules set forth in the Solactive Guideline for [Extraordinary Corporate Actions](#).

3 Calculation of the Index

3.1 Index formula

The Index is an index whose value on a Business Day is equivalent to the sum over all Index Components of the products of (a) the Number of Shares of the Index Component and (b) the price of the Index Component at the respective Exchange.

As a formula:

$$Index_t = \sum_{i=1}^n x_{i,t} * p_{i,t}$$

With:

$x_{i,t}$ = Number of Shares of the Index Component i on Trading Day t

$p_{i,t}$ = Price of Index Component i on Trading Day t in Index Currency

In absence of any ordinary or extraordinary adjustments, dividends or other adjustments as outlined in 3.3 of this document, the number of shares of any Index Component $x_{i,t}$ remains constant. The Index is calculated as a Net Total Return Index. Dividends and other distributions are reinvested into the Index on the ex-date, resulting in a change of $x_{i,t}$.

3.2 Accuracy

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

The Number of Shares of the Index Components will be rounded to six decimal places.

Trading Prices will be rounded to four decimal places.

3.3 Adjustments

Indices need to be adjusted for systematic changes in prices once these become effective. The Index is adjusted by the decision of Index Committee for distributions, capital increases, rights issues, splits, par value conversions and capital reductions.

This procedure ensures that the first ex quote can be properly reflected in the calculation of the Index. This ex-ante procedure assumes the general acceptance of the Index calculation formula as well as open access to the parameter values used. The calculation parameters are provided by Solactive AG.

Any delay in calculating the new Number of Shares of an Index Component would create problems. Therefore, the procedure described above is the most appropriate.

3.4 Dividends and other distributions

Dividend payments and other distributions cause an adjustment of the Number of Shares of the corresponding Index Component. The new Number of Shares is calculated as follows:

$$x_{i,t} = x_{i,t-1} * \frac{p_{i,t-1}}{p_{i,t-1} - D_{i,t}}$$

With:

$x_{i,t}$ = Number of Shares of the Index Component i on Trading Day t

$D_{i,t}$ = Payment on Trading Day t multiplied by the Dividend Correction Factor of the respective country

3.5 Corporate actions

3.5.1 Principles

Following the announcement by a company included in the Index of the terms and conditions of a corporate action the Index Calculator determines whether such corporate action has a dilution, concentration or other effect on the price of the Index Component.

If this should be the case the Index Calculator shall make the necessary adjustments to the affected Index Component and/or the formula for calculating the Index and/or to other terms and conditions of this document that he deems appropriate in order to take into account the dilution, concentration or other effect and shall determine the date on which this adjustment shall come into effect.

Amongst other things the Index Calculator can take into account the adjustment made by an Affiliated Exchange as a result of the corporate action with regard to option and futures contracts on the respective share traded on this Affiliated Exchange.

3.5.2 Capital increases

In the case of capital increases (from the company's own resources or through cash contributions) the new Numbers of Shares are calculated as follows:

$$x_{i,t} = x_{i,t-1} * \frac{p_{i,t-1}}{p_{i,t-1} - rB_{i,t-1}} \quad \text{with:} \quad rB_{i,t-1} = \frac{p_{i,t-1} - B - N}{BV + 1}$$

With:

$x_{i,t}$ = Number of Shares of Index Component i on the day of the distribution

$x_{i,t-1}$ = Number of Shares of Index Component i on the day prior to the distribution

$p_{i,t-1}$ = Closing price on the day prior to ex date

$rB_{i,t-1}$ = Calculated value of rights issue

B = Price of rights issue

N = Dividend disadvantage

BV = Subscription ratio

$B = 0$ if capital is increased from the company's own resources.

The last dividend paid or the announced dividend proposal is applied as the dividend disadvantage.

3.5.3 Capital reductions

In the case of capital reductions the new Number of Shares is determined as follows:

$$x_{i,t} = x_{i,t-1} * \frac{1}{H_{i,t}}$$

With:

$H_{i,t}$ = Reduction ratio of the company on day t

$x_{i,t}$ = Number of Shares of the affected Index Component on the day of the distribution

$x_{i,t-1}$ = Number of Shares of the affected Index Component on the day prior to the distribution

3.5.4 Share splits and par value conversions

In the case of share splits and par value conversions it is assumed that the prices change in ratio to the number of shares or to the par values. The new Number of Shares is calculated as follows:

$$x_{i,t} = x_{i,t-1} * \frac{N_{i,t-1}}{N_{i,t}}$$

With:

$N_{i,t-1}$ = Former par value of security class i (or new number of shares)

$N_{i,t}$ = New par value of security class i (or former number of shares)

$x_{i,t}$ = Number of Shares of the affected Index Component on the day of the distribution

$x_{i,t-1}$ = Number of Shares of the affected Index Component on the day prior to the distribution

3.6 Miscellaneous

3.6.1 Recalculation

Solactive AG makes the greatest possible efforts to accurately calculate and maintain its indices. However, the occurrence of errors in the index determination process cannot be ruled out. In such cases Solactive AG adheres to its publicly available [Correction Policy](#).

3.6.2 Market Disruption

In periods of market stress Solactive AG calculates its indices following predefined and exhaustive arrangements set out in its publicly available [Disruption Policy](#).

4. Definitions

4.1 Index-specific definitions

“**Index Universe**” in respect of a Selection Day are all listed companies that fulfill the following criteria:

- a) Considerable revenues in the following AI Segments:
 - AI Software (Platforms)
 - AI Hardware (Platforms)
 - Big Data Platforms
 - AI Application, AI Industries
 - i. Healthcare
 - ii. Automotive
 - iii. Financial Services
 - iv. Technology and Media
 - v. Retail
- b) Listed on a “Recognized and regulated Stock Exchange”
- c) Market capitalization of at least 750.000.000 USD
- d) Average Daily Value Traded of at least 1.000.000 USD over the past three months up to and including the Selection Day
- e) No trading restrictions for international investors

The companies must also be in the FactSet Sub-Industries database in the following four sectors

- a) AI Application, AI Industries
- b) AI Hardware (Platforms)
- c) AI Software (Platforms)
- d) Big Data (Platforms)

where:

FS Sub-Industry	Sector
Car Manufacturers Auto Interior Comfort/Safety/Electronics Products Aircraft Manufacturing Other Traditional Investment Product Managers Diversified Customer Relationship Software Media Download and Streaming Digital Content Sites Personal Loans Other Health Plans Institutional Brokerage Services	AI Application, AI Industries
Microprocessor (MPU) Semiconductors Other Communications Semiconductors Video Multimedia Semiconductors Photolithography Equipment Manufacturing Asia (Excluding China) Wireless Services	AI Hardware (Platforms)
Communication and Collaboration Content Sites Web Search Sites and Software General Merchandise Retailers Multi-Type Home and Office Software General Information Technology (IT) Consulting	AI Software (Platforms)

General Enterprise Management Software Diversified Enterprise Resource Planning Software Business Intelligence Software	Big Data (Platforms)
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“Recognized and regulated Stock Exchange” includes Stock Exchanges in the following countries: Australia, Austria, Belgium, Denmark, Finland, France, Germany, Hong Kong, Ireland, Italy, Japan, South Korea, Netherlands, Norway, New Zealand, Portugal, Singapore, Spain, Sweden, Switzerland, United Kingdom, United States of America.

The initial composition of the Index on September 18th, 2017 is as follows:

Name	ISIN	Weight	Sektor
Facebook Inc	US30303M1027	5.00%	AI Software (Platforms)
Alphabet Inc	US02079K3059	5.00%	
ALIBABA GROUP HOLDING LTD	US01609W1027	5.00%	
Microsoft Corp	US5949181045	5.00%	
Amazon.Com Inc	US0231351067	5.00%	
Tencent Holdings Ltd.	KYG875721634	5.00%	
Baidu Inc	US0567521085	5.00%	
Intel Corp	US4581401001	5.00%	AI Hardware (Platforms)
Qualcomm Inc	US7475251036	5.00%	
NVIDIA Corp	US67066G1040	5.00%	
SOFTBANK GROUP CORP	JP3436100006	5.00%	
SAP SE	DE0007164600	5.00%	Big Data (Platforms)
Workday, Inc.	US98138H1014	5.00%	
Splunk Inc	US8486371045	5.00%	
Tableau Software Inc	US87336U1051	5.00%	
BlackRock Inc	US09247X1019	5.00%	AI Application, AI Industries
Netflix Inc	US64110L1061	5.00%	
Salesforce.com Inc	US79466L3024	5.00%	
Boeing Co	US0970231058	5.00%	
Delphi Automotive PLC	JE00B783TY65	5.00%	

4.2 Other definitions

“Index Advisor” is

I&S Internet & Security Consulting GmbH

Thomas Rappold

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D-72189 Voehringen

www.silicon-valley.de

“Index Component” is each share currently included in the Index.

“Number of Shares” is in respect of an Index Component and any given Business Day the number or fraction of shares included in the Index. It is calculated for any Index Component as the ratio of (A) the Percentage Weight of an Index Component multiplied by the Index value and (B) its Trading Price.

“Average Daily Traded Value” means, in respect of a Share, the sum of Daily Traded Value over a specified period divided by the number of Exchange Trading Days that fall in the specified period.

“Daily Traded Value” means, in respect of a Share and of an Exchange Trading Day, the product of (i) the Closing Exchange Price of such Share and (ii) the volume traded (measured as a number of Shares) of such Share on the Exchange during such Exchange Trading Day. For Canadian stocks the Daily Traded Value shall be calculated on a composite basis (i.e, aggregated over all regulated Canadian stock exchanges).

“Percentage Weight” of an Index Component is the ratio of its Trading Price multiplied by its Number of Shares divided by the Index value.

“Dividend Correction Factor” is calculated as 1 minus the applicable withholding tax rate and/or other applicable tax rate currently prevalent in the respective country.

In particular an **“Extraordinary Event”** is

- a Merger
- a Takeover bid
- a delisting
- the Nationalisation of a company
- Insolvency.

The Trading Price for this Index Component on the day the event came into effect is the last available market price for this Index Component quoted on the Exchange on the day the event came into effect (or, if a market price is not available for the day the event came into effect, the last available market price quoted on the Exchange on a day specified as appropriate by the Index Calculator), as determined by the Index Calculator, and this price is used as the Trading Price of the particular Index Component until the end of the day on which the composition of the Index is next set.

In the event of the Insolvency of an issuer of an Index Component the Index Component shall remain in the Index until the next Adjustment Day. As long as a market price for the affected Index Component is available on a Business Day, this shall be applied as the Trading Price for this Index Component on the relevant Business Day, as determined in each case by the Index Calculator. If a market price is not available on a Business Day the Trading Price for this Index Component is set to zero. The Committee may also decide to eliminate the respective Index Component at an earlier point in time prior to the next Adjustment Day. The procedure in this case is identical to an elimination due to and Extraordinary Event.

An Index Component is **“delisted”** if the Exchange announces pursuant to the Exchange regulations that the listing of, the trading in or the issuing of public quotes on the Index Component at the Exchange has ceased immediately or will cease at a later date, for whatever reason (provided delisting is not because of a Merger or a Takeover bid), and the Index Component is not immediately listed, traded or quoted again on an exchange, trading or listing system, acceptable to the Index Calculator,

“Insolvency” occurs with regard to an Index Component if (A) all shares of the respective issuer must be transferred to a trustee, liquidator, insolvency administrator or a similar public officer as result of a voluntary or compulsory liquidation, insolvency or winding-up proceedings or comparable proceedings affecting the issuer of the Index Components or (B) the holders of the shares of this issuer are legally enjoined from transferring the shares.

A **“Takeover bid”** is a bid to acquire, an exchange offer or any other offer or act of a legal person that results in the related legal person acquiring as part of an exchange or otherwise more than 10% and less than 100% of the voting shares in circulation from the issuer of the Index Component or the right to acquire these shares, as determined by the Index Calculator based on notices submitted to public or self-regulatory authorities or other information considered by the Index Calculator to be relevant.

With regard to an Index Component a **“Merger”** is

- (i) a change in the security class or a conversion of this share class that results in a transfer or an ultimate definite obligation to transfer all the shares in circulation to another legal person,
- (ii) a merger (either by acquisition or through forming a new structure) or a binding obligation on the part of the issuer to exchange shares with another legal person (except in a merger or share exchange under which the issuer of this Index Component is the acquiring or remaining company and which does not involve a change in security class or a conversion of all the shares in circulation),
- (iii) a takeover offer, exchange offer, other offer or another act of a legal person for the purposes of acquiring or otherwise obtaining from the issuer 100% of the shares issued that entails a transfer or the irrevocable obligation to transfer all shares (with the exception of shares which are held and controlled by the legal person), or
- (iv) a merger (either by acquisition or through forming a new structure) or a binding obligation on the part of the issuer of the share or its subsidiaries to exchange shares with another legal person, whereby the issuer of the share is the acquiring or remaining company and it does not involve a change in the class or a conversion of the all shares issued, but the shares in circulation directly prior to such an event (except for shares held and controlled by the legal person) represent in total less than 50% of the shares in circulation directly subsequent to such an event.

The **“Merger Date”** is the date on which a Merger is concluded or the date specified by the Index Calculator if such a date cannot be determined under the law applicable to the Merger.

“Nationalisation” is a process whereby all shares or the majority of the assets of the issuer of the shares are nationalised or are expropriated or otherwise must be transferred to public bodies, authorities or institutions.

“Exchange” is, in respect of Index and every Index Component, the respective primary exchange where the Index Component has its primary listing. The Committee may decide to declare a different stock exchange the “Exchange” for trading reasons, even if the company is only listed there via a Stock Substitute.

“Stock Substitute” includes in particular American Depositary Receipts (ADR) and Global Depositary Receipts (GDR).

With regard to an Index component (subject to the provisions given above under “Extraordinary Events”) the **“Trading Price”** in respect of a Trading Day is the closing price on this Trading Day determined in accordance with the Exchange regulations. If the Exchange has no closing price for an Index Component, the Index Calculator shall determine the Trading Price and the time of the quote for the share in question in a manner that appears reasonable to him.

A **“Business Day”** is in relation to the Index or an Index Component a Trading Day on the Exchange (or a day that would have been such a day if a market disruption had not occurred), excluding days on which trading may be ceased prior to the normal Exchange closing time. The Index Calculator is ultimately responsible as to whether a certain day is a Trading Day with regard to the Index or an Index Component or in any other connection relating to this document.

A **“Trading Day”** is a day, when the Boerse Stuttgart AG is open for trading.

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

The **“Index Currency”** is US Dollar.

“Market Capitalization” is with regard to each of the shares in the Index Universe on a Selection Day or Adjustment Day the value published by Reuters (or a successor) as the Market Capitalization for this day.

As at the date of this document Market Capitalization is defined by Reuters as the value of a company calculated by multiplying the number of shares outstanding of the company by its share price. "Free Float Market Capitalization" is with regard to each of the shares in the Index Universe or in the Index on a Selection Day or Adjustment Day the Market Capitalization for this day multiplied by the ratio of (A) the number of shares in circulation and (B) the number of shares outstanding of the respective company. If Reuters (or a successor):

(i) does not publish for a Selection Day a Market Capitalization for a share or

(ii) adopts another method for calculating the Market Capitalization for all shares or only with regard to the share in question or uses different assumptions in calculating the Market Capitalization for all shares or only with regard to the share in question, and in the reasonable assessment of the Index Calculator involves material changes (the Index Calculator makes the decision as to whether such changes are to be deemed "material" by applying factors that in his reasonable assessment appear appropriate to him), the Index Calculator will determine the Market Capitalization in respect of the shares or of a share included in the Index Universe and the respective Selection Day either from another publicly accessible source specified at his sole discretion or from other sources that in his assessment are reasonable and appropriate in the event that no other publicly quoted suitable prices are available.

"Adjustment Day" is the second Wednesday of March and September.

"Selection Day" is the first Wednesday of March and September.

An **"Affiliated Exchange"** is with regard to an Index Component an exchange, a trading or quotation system on which options and futures contracts on the Index Component in question are traded, as specified by the Index Calculator.

A **"Market Disruption Event"** occurs if

1. one of the following events occurs or exists on a Trading Day prior to the opening quotation time for an Index Component:
 - A) trading is suspended or restricted (due to price movements that exceed the limits allowed by the Exchange or an Affiliated Exchange, or for other reasons):
 - 1.1. across the whole Exchange; or
 - 1.2. in options or futures contracts on or with regard to an Index Component or an Index Component that is quoted on an Affiliated Exchange; or
 - 1.3. on an Exchange or in a trading or quotation system (as determined by the Index Calculator) in which an Index Component is listed or quoted; or
 - B) an event that (in the assessment of the Index Calculator) generally disrupts and affects the opportunities of market participants to execute on the Exchange transactions in respect of a share included in the Index or to determine market values for a share included in the Index or to execute on an Affiliated Exchange transaction with regard to options and futures contracts on these shares or to determine market values for such options or futures contracts; or
 2. trading on the Exchange or an Affiliated Exchange is ceased prior to the usual closing time (as defined below), unless the early cessation of trading is announced by the Exchange or Affiliated Exchange on this Trading Day at least one hour before
 - (aa) the actual closing time for normal trading on the Exchange or Affiliated Exchange on the Trading Day in question or, if earlier.
 - (bb) the closing time (if given) of the Exchange or Affiliated Exchange for the execution of orders at the time the quote is given.
- "Normal exchange closing time"** is the time at which the Exchange or an Affiliated Exchange is normally closed on working days without taking into account after-hours trading or other trading activities carried out outside the normal trading hours; or
3. a general moratorium is imposed on banking transactions in the country in which the Exchange is resident if the above-mentioned events are material in the assessment of the Index Calculator, whereby the Index Calculator makes his decision based on those circumstances that he considers reasonable and appropriate.

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.