

GUIDELINE

Solactive US Extended Broad Market Index

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This document contains the underlying principles and regulations regarding the structure and the operating of the Solactive US Extended Broad Market Index (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 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 copyrighted.

1 Index specifications

The Solactive US Extended Broad Index (the “Index”) is an Index of Solactive AG and is calculated and distributed by Solactive AG.

The Index is based on the Solactive US Broad Market Index, which tracks various segments of the US stock market. The Solactive US Extended Broad Index will also include ADRs and stocks from foreign companies whose primary listing is in the US. The Index is selected and weighted according to Free Float Market Capitalization (Total Market Capitalization for ADRs), and adjusted semi-annually in May and November. IPOs can be included additionally on a quarterly basis in case they meet all criteria outlined in the relevant sections of this document.

The Index is calculated as Price Return (PR) and Gross Total Return (GTR).

The Index is published in USD.

1.1 Short name and ISIN

The Solactive US Extended Broad Market Index is distributed under the following identifiers:

Name	ISIN	WKN	Characteristic	Reuters	Bloomberg
Solactive US Extended Broad Market Index (PR)	DE000SLA23A6	SLA23A	Price Return	.SOLUSEBP	n.a.
Solactive US Extended Broad Market Index (GTR)	DE000SLA2290	SLA229	Gross Return	.SOLUSEBG	SOLUSEBG Index

1.2 Initial value

The Index is based on 100 at the close of trading on the start date, November 02, 2011

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. 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 Selection Day, the new Index Components of the Solactive US Extended Broad Market Index are weighted according to Free-Float Market Capitalization (Total Market Capitalization is used for ADRs). The relevant Float Shares outstanding and Total Shares outstanding as of the Selection Day are used and are implemented as of close on the Adjustment Day. The Shares are adjusted for corporate actions between Selection Day and Adjustment Day. This only relates to corporate actions that have a direct impact on the price and shares (i.e. stock splits, stock dividends, rights issues). The number of Float Shares and Total Shares is sourced from a data provider that is chosen by the Index Calculator and might change over time.

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 in the event that 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 November 02, 2011.

During the backtested period (November 02, 2011 to January 13, 2017), the IPO Review, as explained in Section 2, was not applied. In addition, during this period, the “Standard formula” was used for the index calculations. For more information, refer to the [Solactive Index Calculation Guideline](#).

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 Days, the Index Committee defines the Solactive US Extended Broad Index Universe according to the rules outlined in Section 4.

All companies qualified to be in the Index Universe are added to the Index.

2.2 Ordinary adjustment

The composition of the Index is adjusted at the close of the 1st Wednesday in May and November. The composition of the Index is reviewed on the Selection Day and necessary changes are announced.

In addition to the semi-annual Adjustment Days, there is a semi-annual IPO Review Date, where potential IPOs are evaluated for inclusion on the IPO Adjustment Day. In order to be eligible for any of the three indices comprising the Solactive US Benchmark Index Series, the IPO must fulfill the criteria outlined in chapter 4.

The changes will be implemented as of close of the IPO Adjustment Day. The weight of the other index components will be reduced proportionally according to their Float Market Capitalization.

The Float Market Capitalization data is updated at the IPO Review Date (including new Float Shares). That approach leads to a new weighting even absent any eligible IPO. The other criteria outlined in Chapter 4 are only reviewed semi-annually at the respective Selection Days.

The first adjustment will be made in February 2017 based on the Trading Prices of the Index Components on the IPO Review Date.

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

2.3 Extraordinary adjustment

If a company included in Solactive US Benchmark Index Series is removed from the Index between two ordinary Adjustment Days due to an Extraordinary Event, the weight of the stock will be redistributed amongst the remaining index members. This is announced by Solactive AG after the decision has been made on its webpage. The Indices are adjusted with two days' notice if possible. Other potential extraordinary adjustments might occur. The following table provides guidance on the treatment that will be applied following M&A activity. Additional corporate actions causing Extraordinary Events are covered in chapter 4 of this document. For all extraordinary corporate actions not covered within this document, the Index Committee will announce the specific treatment on the Solactive webpage.

Event	Adjustment	Adjustment Treatment
Acquisition (only Target Company is in the Index)	Yes	If the acquired constituent is delisted, the stock is removed and the proceeds are reinvested proportionally (based on the current weight) among the other constituents. This is independent as to whether the transaction has been paid for using cash, stock or a combination of both.
Acquisition or Merger (both Acquirer and Target Company are in the Index)	Yes	If the acquired constituent is delisted, the stock is removed and the cash received in the transaction is proportionally distributed to the remaining index components. In case the transaction is financed entirely or partly with new shares, then the shares of the acquirer in the index are increased accordingly, leading to an increased Market Capitalization and weight within the index.
Spin Off	Yes	The spun off company is added to the index on the ex date according to the terms of the spin off. At the next ordinary semi-annual rebalancing, the eligibility of the company is reviewed according to the criteria outlined in this methodology

3 Calculation of the Index

3.1 Index formula

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

$$Index_t = \sum_{i=1}^n \frac{(x_{i,t} * p_{i,t} * f_{i,t})}{D_t}$$

With:

$x_{i,t}$	= Number of Index Shares of the Index Component i on Trading Day t
$p_{i,t}$	= Price of Index Component i on Trading Day t
$f_{i,t}$	= Foreign exchange rate to convert the Price of Index Component i on Trading Day t into the Index Currency
D_t	= Divisor on Trading Day t

The initial Divisor on the Start Date is calculated according to the following formula:

$$D_t = \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t})}{100}$$

After the close of trading on each Adjustment Day t the new Divisor is calculated as follows:

$$D_{t+1} = \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t+1})}{Index_t}$$

This Divisor is valid starting the immediately following Business Day.

3.2 Accuracy

The value of the Index will be rounded to 4 decimal places.

Trading Prices and foreign exchange rates will be rounded to six decimal places.

Divisors will be rounded to six decimal places

3.3 Adjustments

Indices need to be adjusted for systematic changes in prices once these become effective. This requires the new Number of Index Shares of the affected Index Component and the Divisor to be calculated on an ex-ante basis.

Following the Committee's decision the Index is adjusted for distributions, capital increases and stock splits.

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 the Index Calculator.

3.4 Dividends and other distributions

Dividend payments and other distributions are included in the Index. They cause an adjustment of the Divisor. The new Divisor is calculated as follows:

$$D_{t+1} = D_t * \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t}) - (x_{i,t} * y_{i,t} * g_{i,t})}{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t})}$$

With:

$p_{i,t}$	= Price of Index Component i on Trading Day t
$f_{i,t}$	= Foreign exchange rate to convert the Price of Index Component i on Trading Day t into the Index Currency
$x_{i,t}$	= Number of Index Shares of the Index Component i on Trading Day t
$y_{i,t}$	= Distribution of Index Component i with ex date t+1 multiplied by the Dividend Correction Factor
$g_{i,t}$	= Foreign exchange rate to convert the amount of the distribution of Index Component i on Trading Day t into the Index Currency
D_t	= Divisor on Trading Day t
D_{t+1}	= Divisor on Trading Day t+1

3.5 Corporate actions

3.5.1 Principles

Following the announcement by an issuer of Index Components of the terms and conditions of a corporate action the Index Calculator determines whether such corporate action has a dilutive, concentrative or similar effect on the price of the respective Index Component.

If this should be the case the Index Calculator shall make the necessary adjustments that are deemed appropriate in order to take into account the dilutive, concentrative or similar 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 with ex date t+1 the Index is adjusted as follows:

$$x_{i,t+1} = x_{i,t} * \frac{1 + B}{1}$$

With:

$x_{i,t+1}$	= Number of Index Shares of Index Component i on Trading Day t+1
$x_{i,t}$	= Number of Index Shares of Index Component i on Trading Day t
B	= Shares received for every share held

$$p_{i,t+1} = \frac{p_{i,t} + s * B}{1 + B}$$

With:

$p_{i,t+1}$	= Hypothetical Price of Index Component i on Trading Day t+1
$p_{i,t}$	= Price of Index Component i on Trading Day t
s	= Subscription Price in the Index Component currency
B	= Shares received for every share held

$$D_{t+1} = D_t * \frac{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t}) + \sum_{i=1}^n [(x_{i,t+1} * p_{i,t+1} * f_{i,t}) - (x_{i,t} * p_{i,t} * f_{i,t})]}{\sum_{i=1}^n (p_{i,t} * f_{i,t} * x_{i,t})}$$

With:

$D_{i,t+1}$	= Divisor on Trading Day t+1
$D_{i,t}$	= Divisor on Trading Day t
$p_{i,t}$	= Price of Index Component i on Trading Day t
$f_{i,t}$	= Foreign exchange rate to convert the Price of Index Component i on Trading Day t into the Index Currency
$x_{i,t}$	= Number of Index Shares of the Index Component i on Trading Day t
$p_{i,t+1}$	= Hypothetical price of Index Component i on Trading Day t+1
$x_{i,t+1}$	= Number of Index Shares of the Index Component i on Trading Day t+1

3.5.3 Share splits

In the case of share splits with ex date on Trading Day t+1 it is assumed that the prices change in ratio of the terms of the split. The new Number of Index Shares is calculated as follows:

$$x_{i,t+1} = x_{i,t} * B$$

With:

$x_{i,t+1}$	= Number of Index Shares of the affected Index Component on Trading Day t+1
$x_{i,t}$	= Number of Index Shares of the affected Index Component on Trading Day t
B	= Shares after the share split for every share held before the split

3.5.4 Stock distributions

In the case of stock distributions with ex date on Trading Day t+1 it is assumed that the prices change according to the terms of the distribution. The new Number of Index Shares is calculated as follows:

$$x_{i,t+1} = x_{i,t} * (1 + B)$$

With:

$x_{i,t+1}$	= Number of Index Shares of the affected Index Component on Trading Day t+1
$x_{i,t}$	= Number of Index Shares of the affected Index Component on Trading Day t
B	= Shares received for every share held

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

“Solactive US Extended Broad Market Index Universe” in respect of a Selection Day are all companies that fulfill the following criteria, initially divided into two separate screening processes:

1. Index Universe A:
 - a. The components of the Solactive US Broad Market Index, which are selected on the same day as the Solactive US Extended Broad Market Index, are automatically included in the Universe. For more information, refer to the [Solactive US Benchmark Index Series Guideline](#).
2. Index Universe B:
 - a. Primary Listing on a regulated Stock Exchange in the United States.
 - b. Common Stocks, REITs and ADRs that are not part of Index Universe A are eligible for index inclusion.
 - c. **“Average daily Value traded over the 6 months (ADV)”** until and including the Selection Day of at least 100,000 USD measured using composite average daily value traded over all exchanges in the US. Companies that do not have a 6-month history (Spin Offs, IPOs) need to fulfil the requirement for the period of time they traded on an exchange. However, every potential inclusion as of the IPO Adjustment Day or ordinary Adjustment Day needs to have at least a history of 10 Trading Days as of the IPO Review Day and / or the ordinary Selection Day.
 - d. In case a company has multiple share lines, a ratio will be calculated that divides the 6 months ADV of every share class by the most liquid share class (in terms of 6 months ADV) of the respective company. Only share lines whose ratio exceeds 75% are eligible for the Universe.
 - e. A “minimum threshold” is determined as the minimum Free Float Market Cap (for Common Stocks and REITs) or Total Market Cap (for ADRs) that a company must have to be eligible for the Universe. The “minimum threshold” is the Free Float Market Cap of the lowest ranked company that has been selected for the Solactive US Broad Market Index on the same Selection Day.
3. Index Universes A and B are combined to constitute the “Index Universe”.

“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 the Divisor and (B) its Trading Price (converted into the index currency according to the principles laid out in Section 1.4 of this document).

“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 an 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.

“IPO Review Day” is 10 Business Days before the IPO Adjustment Day. As of the IPO Review Date, the IPO needs to have been traded for at least 10 Business Days before it is eligible for index inclusion at the IPO Adjustment Day.

“IPO Adjustment Day” is the 1st Wednesday of February and August. In case that day is not a Business Day the Adjustment Day will be the following Business Day.

“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 **“Trading 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 **“Business Day”** is a day on where the New York Stock Exchange and/or NASDAQ are open for trading.

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

The **“Index Currency”** is USD.

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

As at the date of this document Total Market Capitalization is defined as the value of a company calculated by multiplying the number of total 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 on a Selection Day or Adjustment Day the value published as the Free Float Market Capitalization for this day.

As at the date of this document Free Float Market Capitalization is defined as the value of a company calculated by multiplying the number of shares outstanding in Free Float of the company (as sourced from data vendors) by its share price.

“Adjustment Day” is the close of the first Wednesday in May and November that is also a Business Day according to the definition in this document. In case that day is not a Business Day the Adjustment Day will be the following Business Day.

“Selection Day” is the Business Day 10 Business Days before the Adjustment Day.

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.