

# INDEX GUIDELINE

CoinShares Blockchain Global Equity Index

Version 1.4

17 September 2021

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Think before you print!

# TABLE OF CONTENTS

Introduction .....	3
1 Index Specifications .....	4
1.1 Short name and ISIN .....	4
The Index is distributed under the following identifier: .....	4
1.2 Initial value .....	4
1.3 Distribution .....	4
1.4 Prices and calculation frequency .....	4
1.5 Weighting .....	5
1.6 Oversight .....	6
1.7 Publication .....	6
1.8 Historical Data .....	6
1.9 Licensing .....	6
2 Composition of the Index .....	6
2.1 Selection of the Index components .....	7
2.2 Ordinary adjustment .....	8
2.3 Extraordinary adjustment .....	9
3 Calculation of the Index .....	9
3.2 Accuracy .....	9
3.3 Adjustments .....	10
3.4 Dividends and other distributions .....	10
3.5 Corporate actions .....	10
3.5.1 Principles .....	10
3.5.2 Capital increases .....	11
3.5.3 Share splits .....	12
3.5.4 Stock distributions .....	12
3.6 Miscellaneous .....	12
3.6.1 Recalculation .....	12
3.6.2 Market Disruption .....	12
4 Definitions .....	13
5 Changes in calculation method .....	19

## INTRODUCTION

This document (the "Guideline") is to be used as a guideline with regard to the composition, calculation and maintenance 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, assuming the role as administrator (the "Index Administrator") under the Regulation (EU) 2016/1011 (the "Benchmark Regulation" or "BMR"). The name "Solactive" is trademarked.

It contains the underlying principles and rules regarding the structure and operation of the CoinShares Blockchain Global Equity Index (the "Index"). Solactive AG shall make every effort to implement the applicable 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 does not constitute a 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.

## 1 INDEX SPECIFICATIONS

- > The CoinShares Blockchain Global Equity Index (the "Index") is an Index of CoinShares International Limited and is calculated and distributed by Solactive AG.
- > The Index intends to track the price movements of a global portfolio of companies participating in the blockchain ecosystem.
- > The Index is a Price Return and Net Total Return index. For the Price Return version special cash dividends are reinvested into the index without any tax deduction.
- > The Index is published in US Dollar.

### 1.1 SHORT NAME AND ISIN

The Index is distributed under the following identifier:

Name	ISIN	WKN	Characteristic	Reuters	Bloomberg
CoinShares Blockchain Global Equity Index PR Index	DE000SLA6ZC3	SLA6ZC	Price Return	.BLOCKP	BLOCKP Index
CoinShares Blockchain Global Equity Index	DE000SLA6ZB5	SLA6ZB	Net Total Return	.BLOCK	BLOCK Index

### 1.2 INITIAL VALUE

The Index is based on 100 at the close of trading on the start date, July 31, 2017.

### 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. Each vendor decides on an individual basis as to whether it will distribute/display the Index via its 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 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. The daily Index Closing Level is calculated using Reuters/WMCO closing spot rates as at 4pm London time.

## Index Guideline

The Index is calculated every Business Day from 1:00 a.m. to 10:30 p.m., CET. In the event that data cannot be provided to Reuters or to the pricing services of Boerse Stuttgart GmbH, the Index cannot be distributed.

### 1.5 WEIGHTING

Index Components are weighted based on their Blockchain Category Score and their Liquidity Scale, where Liquidity Scale is defined as follows:

$$Liquidity_{Scale} = MIN(1, \frac{ADV}{\$10,000,000})$$

Where:

ADV = 6-months Average Daily Value Traded as defined under section 2.1 of the index guideline.

An Index Score is calculated as the Blockchain Category Score times the Liquidity Scale. The index weight of each Index Component is the percentage of each individual company's Index Score relative to the total sum of all Index Scores from all Index Components:

$$Index_{Weight} = \frac{Index_{Score}}{\sum Index_{Score}}$$

To ensure that (a) the index remains compliant with the diversification requirements for UCITS funds, and (b) the shares of any index constituent company that are held by products tracking the index do not represent an excessive proportion of either that company's total outstanding shares or its free float shares, a stock-specific index weight cap ( $Max\_ \%Wgt_n$ ) is calculated for each stock  $n$  in the index:

$$Max\_ \%Wgt_n = Min(5\%, MCap\_Wgt\_Max_n, FF\_Wgt\_Max_n)$$

Where  $MCap\_Wgt\_Max_n$  and  $FF\_Wgt\_Max_n$  are defined by:

$$MCap\_Wgt\_Max_n = \frac{MktCap_n * 7\%}{Indexed\_Assets}$$

$$FF\_Wgt\_Max_n = \frac{FF\_MktCap_n * 20\%}{Indexed\_Assets}$$

And where  $MktCap_n$  is the total market capitalisation in USD of company  $n$ ,  $FF\_MktCap_n$  is the free float market capitalisation in USD of company  $n$ , and  $Indexed\_Assets$  is the total USD value of assets benchmarked to the index as of the Selection Date as defined in Section 4.

The weight of each security  $n$  is capped at  $Max\_Wgt_n$ , with any excess weight above this level distributed pro-rata to any index component with a weight below its  $Max\_Wgt_n$ . This process is repeated until no individual index component has a weight above its  $Max\_Wgt_n$ .

### 1.6 OVERSIGHT

A Committee composed of staff from Solactive AG (the "Committee" or the "Index Committee") is responsible for decisions regarding the composition of the Index as well as any amendments to the rules.

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.com> web page and sub-pages.

### 1.8 HISTORICAL DATA

Historical data will be maintained from the launch of the Index on December 11, 2018. For the calculation of the backtest the Blockchain Category Score as of December 10, 2018 was used for each eligible company in the index universe.

### 1.9 LICENSING

Licenses to use the Index as the underlying value for derivative instruments are issued to stock exchanges, banks, financial services providers and investment houses by CoinShares International Limited by its sole discretion.

## 2 COMPOSITION OF THE INDEX

## 2.1 SELECTION OF THE INDEX COMPONENTS

The initial composition of the Index as well as any ongoing adjustment are based on the following non-discretionary rules:

On the Selection Days, the Index Advisor defines the Index Universe as outlined in Section 4. The Index Advisor then determines the companies participating in the blockchain ecosystem as well as the Blockchain Category Score for the companies operating in any of the defined Areas.

In order to be eligible for inclusion into the index, companies rated as Core (Blockchain Category Score 5) or Significant (Blockchain Category Score 4) need to have an Average Daily Value Traded of USD \$ 250,000 over the past 6-months, including the Selection Day.

Companies rated as Moderate (Blockchain Category Score 3), Developing (Blockchain Category Score 2), or Potential (Blockchain Category Score 1) need to have an Average Daily Value Traded of USD \$ 1,000,000 over the past 6-months, including the Selection Day.

The selection process proceeds as follows:

Component Selection Stage	Implementation
1. Liquid Core	The most liquid companies ranked as "Core" (Blockchain Category Score 5) and "Significant" (Blockchain Category Score 4) with a 6-month notional ADV greater than \$1,000,000 are included in the index, up to a maximum of 75 index constituents.
2. Plus the illiquid core	If the number of index components is less than 75, the (up to) 10 most liquid companies ranked as "Core" (Blockchain Category Score 5) and "Significant" (Blockchain Category Score 4) with a 6-month notional ADV between \$250,000 and \$1,000,000 are added to the index up to a maximum of 75 index constituents.
3. Plus the liquid moderate constituents	If the number of index components is less than 75, the most liquid stocks ranked as "Moderate" (Blockchain Category Score 3) with a 6-month notional ADV greater than \$2,000,000 are added to the index, up to a maximum of 75 total constituents.



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4. Plus the liquid developing constituents	If the number of index components is still less than 50, the most liquid stocks ranked as "Developing" (Blockchain Category Score 2) with a 6-month notional ADV greater than USD \$2,000,000 are added to the index, up to a maximum of 50 total constituents.
5. Plus the liquid potential constituents	If the number of index components is still less than 50, the most liquid stocks ranked as "Potential" (Blockchain Category Score 1) with a 6-month notional ADV greater than USD \$2,000,000 are added to the index, up to a maximum of 50 total constituents.
6. Minimum number of constituents	If the number of index components is less than 40, the most liquid remaining "Core" (Blockchain Category Score 5) and "Significant" (Blockchain Category Score 4) companies are added, until no "Core" or "Significant" companies remain. These are followed by the most liquid remaining "Moderate" (Blockchain Category Score 3) companies, until no "Moderate" companies remain. These are followed by the most liquid "Developing" (Blockchain Category Score 2) companies, until no "Developing" companies remain. Finally, the most liquid "Potential" (Blockchain Category Score 1) companies are added. If at any point during step (6) the number of total index constituents reaches 40, the process is halted and the index basket is complete.

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## 2.2 ORDINARY ADJUSTMENT

The composition of the Index is adjusted quarterly. The composition of the Index is reviewed on the Selection Day and necessary changes are announced.

The first adjustment will be made in January 2019, based on the Trading Prices of the Index Components on the Adjustment Day.

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

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

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

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

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:

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

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

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

This Divisor is valid starting the immediately following Business Day.

### 3.2 ACCURACY

- > The value of the Index will be rounded to 2 decimal places.
- > The Number of Shares of the Index Components 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:

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

With:

- $x_{i,t}$  = 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
- $p_{i,t}$  = 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
- $g_{i,t}$  = 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.

## Index Guideline

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:

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

With:

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

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

With:

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

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

With:

- $x_{i,t}$  = Number of Index Shares of the Index Component  $i$  on Trading Day  $t$
- $x_{i,t+1}$  = Number of Index Shares of the Index Component  $i$  on Trading Day  $t + 1$
- $p_{i,t}$  = Price of Index Component  $i$  on Trading Day  $t$
- $p_{i,t+1}$  = Hypothetical price of Index Component  $i$  on Trading Day  $t + 1$
- $f_{i,t}$  = 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  $t$

$D_{t+1}$  = Divisor 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:

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

With:

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

$x_{i,t+1}$  = Number of Index Shares of the affected Index Component on Trading Day  $t + 1$

$B$  = 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:

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

With:

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

$x_{i,t+1}$  = Number of Index Shares of the Index Component  $i$  on Trading Day  $t + 1$

$B$  = 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

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

1. Companies need to be listed on a regulated stock exchange in any of the following countries: Australia, Austria, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, South Korea, Spain, Sweden, Switzerland, Taiwan, United Kingdom and United States.

Based on the above pool of companies (the “Index Universe”) the Index Advisor looks for companies participating in the blockchain ecosystem in at least one of the following Areas (this process encompasses inter alia screening company descriptions on bona-fide sources, company annual filings and websites):

Area	Description
Mining hardware	Companies involved in the manufacture, distribution or assembly of crypto-currency mining equipment or related components
Mining technology	The development of software or techniques used in mining equipment production of the crypto-currency mining process
Mining operations	The operation, maintenance, ownership or provision of services related to cryptocurrency mining facilities.
Energy	The ownership or control of energy assets with characteristics suitable for cryptocurrency mining
Token investments	Companies who hold cryptocurrency related tokens or who have some rights to cryptocurrency tokens
Blockchain financial services	Companies offering or developing trading, investment, consulting or other blockchain related financial services
Blockchain payment systems	Operation or development of payments systems which involve blockchain technology
Blockchain technology solutions	Development or operation of commercial technological solutions related to blockchain
Blockchain consulting or communications services	Advising or consulting on blockchain related technologies

In a next step, the Index Advisor then determines the approximate proportion of the company value which is attributable to blockchain technology. The Index Advisor will determine this by reviewing company

## Index Guideline

filings and websites and engaging in discussions with company management teams. Companies are then assigned into one of the following significance categories:

Blockchain exposure category	Blockchain category score	Description
Core	5	<p>Companies where the majority of corporate value is attributable to profitable blockchain related business activity.</p> <p>A typical company in this category has over 50% of their corporate value attributable to blockchain technology.</p> <p>If between 15% and 50% of corporate value is attributable to blockchain technology, but the company is the leading entity in respect of a particular blockchain area described in section 2 (with the highest market share in their area), they are considered as potentially a valid selection for this category.</p>
Significant	4	<p>Companies where a significant proportion of corporate value is comprised of profitable and sustainable blockchain related business activity.</p> <p>A typical company in this category has 15% to 50% of their corporate value attributable to blockchain technology. For example, 20% of sales could relate to blockchain technology and the blockchain activity should be considered profitable and sustainable.</p> <p>If between 5% and 15% of corporate value is attributable to blockchain technology, but the company is the leading entity in respect of a particular blockchain area described in section 2 (with the highest market share in their area), they are considered as potentially a valid selection for this category.</p>
Moderate	3	<p>Companies where a moderate proportion of corporate value is comprised of blockchain related business activity or blockchain related assets.</p> <p>A typical company in this category has 5% to 15% of their corporate value attributable to blockchain technology. For example, 10% of sales could relate to blockchain technology and the blockchain activity should be considered profitable.</p>

		<p>If between 0% and 5% of corporate value is attributable to blockchain technology, but the company is the leading entity in respect of a particular blockchain area described in section 2 (with the highest market share in their area), they are considered as potentially a valid selection for this category.</p>
Developing	2	<p>Companies where a small proportion of corporate value is comprised of blockchain related business activity or blockchain related assets, where there is significant growth potential.</p> <p>A typical company in this category has between 0% and 5% of their corporate value attributable to blockchain technology. The blockchain related business activity does not necessarily need to be profitable, although there should be a potential to generate earnings as a later point in time.</p> <p>If the company has no blockchain business, but the company is the leading potential entity in respect of a particular blockchain area described in section 2 (with the largest asset or strongest expertise in the respective area), they are considered as potentially a valid selection for this category.</p>
Potential	1	<p>This category is for companies with assets, synergies, businesses, expertise or technologies which could be applied to blockchain technology. However, the companies in this category do not currently conduct any blockchain related business activity.</p> <p>A typical company in this category has 0% of their revenue attributable to blockchain technology. For example, the company may:</p> <ol style="list-style-type: none"> <li>1. Have a unique business asset, where the use of the asset could be diverted to an alternative field, such that this alternative field is relevant to blockchain technology and the asset has unique advantages compared to the existing assets in the blockchain space</li> <li>2. Have a unique technological capability, which is not currently applied to blockchain technology, but could be used in the blockchain ecosystem at a later point in time. This capability should</li> </ol>



potentially provide the company with a strong competitive advantage in the blockchain space compared to the existing players in the industry.

The Index Advisor will also provide a quarterly statement of the total USD value of assets benchmarked to the Index based on the most recent data available to the Index Advisor as of the Selection Day ("Indexed Assets"). This value is then used to calculate the percentage weighting caps used in section 2.1.

**"Index Advisor"** means CoinShares International Limited.

The **"Index Component"** is each share currently included in the Index.

The **"Total Shares"** are 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).

The **"Percentage Weight"** of an Index Component is the ratio of its Trading Price multiplied by its Number of Shares divided by the Index value and the Divisor.

**"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.

The **"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 Nationalization 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

## Index Guideline

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 the 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 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 that 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.

"**Nationalization**" is a process whereby all shares or the majority of the assets of the issuer of the shares are nationalized or are expropriated or otherwise must be transferred to public bodies, authorities or institutions.

The "**Exchange**" is, in respect of the 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.

A "**Stock Substitute**" includes in particular, American Depository Receipts (ADR) and Global Depository 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 it.

A "**Trading Day**" is with respect to an Index Component included in the Index at the Adjustment Day and every Index Component included in the Index at the Business Day immediately following the Adjustment Day (for clarification: this provision is intended to capture the Trading Days for the securities to be included in the Index as new Index Components with close of trading on the relevant exchange on the Adjustment Day) a day on which the relevant Exchange is open for trading (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.

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

The "**Index Currency**" is US Dollar.

A "**Business Day**" is any trading day at the New York Stock Exchange.

The "**Adjustment Day**" is the last Business Day of January, April, July and October. If that day is not a Trading Day the Adjustment Day will be the immediately following Trading Day.

The "**Selection Day**" is 5 Business Days before the scheduled Adjustment Day where the scheduled Adjustment Day is the last Business Day of January, April, July and October.

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.
2. trading on the Exchange or an Affiliated Exchange is ceased prior to the "**Normal Exchange Closing Time**", which 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. An exception to this classification as a Market Disruption Event is where the early cessation of trading is announced by the Exchange or Affiliated Exchange on this Trading Day at least one hour before
    - 2.1. the actual closing time for normal trading on the Exchange or Affiliated Exchange on the Trading Day in question or, if earlier.
    - 2.2. the closing time (if given) of the Exchange or Affiliated Exchange for the execution of orders at the time the quote is given.
  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 its decision based on those circumstances that it considers reasonable and appropriate.

## 5 CHANGES 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 that it 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.