



# General Index Guideline

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This document contains the underlying principles and regulations regarding the index calculation of Solactive AG. Solactive AG shall make every effort to implement these principles and regulations. Solactive AG does not offer any explicit or tacit guarantee or assurance, neither pertaining to the results from the use of an index it calculates nor an index value at any certain point in time nor in any other respect. Each 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 an index. The publication of an 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 an index.

# Introduction

This document is to be used as a general guideline with regard to indices calculated by Solactive AG (in this document referred to as “**the index**” or “**the indices**”). Any changes made to this guideline are initiated by the Committee specified in section 1.6. The name “Solactive” is copyrighted.

Each index calculated by Solactive AG which is governed by this document has a separate index termsheet which contains the specific regulations of the index (in this document referred to as “**index termsheet**”). References to items defined in an index termsheet are italicized in this document.

Each index is calculated and maintained based on the general principles stated in the Index Calculation Guideline (in this document referred to as “**Index Calculation Guideline**”). Exceptions from the principles and rules stated in the Index Calculation Guideline are included in the respective index termsheet.

## 1 Index specifications

All index specifications and identifiers are displayed in the respective index termsheet.

### 1.1 Distribution

The indices are published via the price marketing services of Boerse Stuttgart AG (or any appropriate successor chosen by Solactive AG) and are distributed to all affiliated vendors. Each vendor decides on an individual basis as to whether he will distribute/display the indices via his information systems.

### 1.2 Prices and calculation frequency

Each index is calculated according to the *Business Day Convention* based on the prices on the respective Exchanges on which the Index Components are listed or other data sources as may be defined in the respective index termsheet. The most recent prices are used. Prices of Index Components which are not traded in the *Index Currency* are translated using the current midpoint of bid and ask quotes of the respective foreign exchange rate. The *Distribution Time* as well as the *Distribution Frequency* are set in the respective index termsheet. The daily index closing value is calculated using the *Closing Foreign Exchange Rates*. 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.

Any incorrect calculation is adjusted on a retrospective basis as determined by the *Index Committee*.

### 1.3 Decision-making bodies

A Committee composed of staff from Solactive AG is responsible for decisions regarding any amendments to this document (in this document referred to as the “**Committee**”). For each index the index termsheet specifies an *Index Committee* which decides about the future composition of the respective index. The *Index Committee* shall also decide about the future composition of the respective index if any Extraordinary Events should occur and the implementation of any necessary adjustments.

### 1.4 Publication

Whenever possible, all specifications and information relevant for calculating an index are made available on the <http://www.solactive.com> web page and sub-pages.

### 1.5 Licencing

Licences to use an index as the underlying value for derivative instruments are issued to stock exchanges, banks, financial services providers and investment houses as specified in the index termsheet.

## 2 Composition and weighting of the Index

The selection and weighting of all index components is outlined in the respective index termsheet. The new index composition is set on the *Selection Days* out of all components fulfilling the *Selection Pool Criteria* and implemented at the close of trading on the *Adjustment Days*. Solactive AG shall publish any changes made to the index composition after the close of trading on the *Selection Day* and consequently with sufficient notice before the Adjustment Day. The *Selection Methodology* and *Weighting Methodology* may be amended by the *Index Committee* from time to time to account for changes in the respective market segment or the regulatory framework governing financial markets.

If a component of an index is subject to an Extraordinary Event, the respective *Index Committee* shall decide about the necessity of an index adjustment. Details of possible adjustments are outlined in the Index Calculation Guideline. Changes to an index composition are announced by Solactive AG on the day on which the new composition of the affected index was determined by the respective *Index Committee*.

## **3 Calculation of the Indices**

### **3.1 Index formula**

The index calculation formulas are outlined in the Index Calculation Guideline. The formula used in a specific index is indicated in the respective index termsheet.

### **3.2 Accuracy**

The following rounding procedures are followed:

- 1) Index value: 2 decimal places
- 2) Prices of Index Components: No rounding
- 3) Foreign exchange rates: No rounding
- 4) Number of index shares of a component: 6 decimal places for standard formula, integers for Laspeyres formula
- 5) Divisor: 6 decimal places

A modification of these procedures may be indicated in the index termsheet.

### **3.3 Adjustments**

Indices need to be adjusted for systematic changes in prices once these become effective. Following the announcement of the terms and conditions of a distribution or corporate action by an Index Component Solactive AG determines whether such an event has a dilution, concentration or other effect on the price of the Index Component. If this should be the case Solactive AG shall make the necessary adjustments 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. The Index Calculation Guideline shows which events lead to an index adjustment and how the index adjustment is implemented.

### **3.4 Calculation of the Index in the event of a Market Disruption Event**

The *Index Committee* may decide to suspend the calculation of an index in the event of a Market Disruption Event affecting an Index Component in the respective index. If the *Index Committee* decides to continue or resume the calculation of the affected index Solactive AG calculates the index value, taking into account the market conditions prevailing at this point in time, the last quoted Trading Price for each of the Index Components as well as any other conditions that it deems relevant for calculating the index value.

## 4. Definitions

“**Index Component**” is each financial instrument or other constituent currently included in the respective index.

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

- a Merger
- a Takeoverbid
- a Delisting
- a Spin-off
- 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 Solactive AG), as determined by Solactive AG, 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.

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 Takeoverbid), and the Index Component is not immediately listed, traded or quoted again on an exchange, trading or listing system, acceptable to the Index Calculator.

An Index Component is subject to a “**Spin-off**” if the issuer of the shares which are currently Index Components splits its business activities into two or more entities and distributes equity shares in the newly created entities to the shareholders of the former (i.e. status before the Spin-off took place) entity.

“**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 “**Takeoverbid**” with respect to an Index Component 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% of the shares of an issuer or the right to acquire these shares, as determined by Solactive AG based on notices submitted to public or self-regulatory authorities or other information considered by Solactive AG 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 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),
- (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 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 directly subsequent to such an event.

The “**Merger Date**” is the date on which a Merger is concluded or the date specified by Solactive AG 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 this document, the Index Calculation Guideline or an index termsheet, the respective primary exchange where an Index Component has its primary listing. The Committee or respective Index Committee may decide to declare a different stock exchange the “Exchange” for trading reasons, even if an Index Component is only listed there via a Stock Substitute.

“**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, Solactive AG 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 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. Solactive AG is ultimately responsible as to whether a certain day is a Trading Day with regard to an Index Component or in any other connection relating to this document, the Index Calculation Guideline or an index termsheet.

A “**Business Day**” is a day on which Stuttgart Stock Exchange is open for trading.

“**Market Capitalization**” with regard to a share is the value of the issuing company calculated by multiplying the number of shares outstanding of the company by its share price. “**Free Float Market Capitalization**” with regard to a share is its Market Capitalization multiplied by the ratio of (A) the number of shares in circulation and (B) the number of shares outstanding of the respective company.

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 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
    - 1.3. on an Exchange or in a trading or quotation system (as determined by Solactive AG) in which an Index Component is listed or quoted; or
  - B) an event that (in the assessment of Solactive AG) generally disrupts and affects the opportunities of market participants to execute on the Exchange transactions in respect of an Index Component or to determine market values for an Index Component or to execute 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 on this Trading Day at least one hour before
  - (aa) the actual closing time for normal trading on the Exchange on the Trading Day in question or, if earlier,
  - (bb) the closing time (if given) of the Exchange for the execution of orders at the time the quote is given.“**Normal exchange closing time**” is the time at which the 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 Solactive AG, whereby Solactive AG makes his decision based on those circumstances that he considers reasonable and appropriate.

## **5 Appendix**

### **5.1 Contact data**

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### **5.2 Calculation of the Index – change in calculation method**

The application by Solactive AG of the method described in this document is final and binding. Solactive AG shall apply the method described above for the composition and calculation of its indices. However it cannot be excluded that the market environment, supervisory, legal, financial or tax reasons may require changes to be made to this method. Solactive AG may also make changes to the terms and conditions of an Index and the method applied to calculate an 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. Solactive AG is not obliged to provide information on any such modifications or changes. Despite the modifications and changes Solactive AG will take the appropriate steps to ensure a calculation method is applied that is consistent with the method described above.