



# Guideline relating the Global Reinsurance Index

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This document contains the underlying principles and regulations regarding the structure and the operating of the Global Reinsurance 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 Global Reinsurance Index. Any changes made to the guideline are initiated by the Committee specified in section 1.6. The Global Reinsurance Index is calculated and published by Solactive AG.

## **1 Index specifications**

The Global Reinsurance Index is an Index of the Hannover Rück SE and is calculated and distributed by Solactive AG. It tracks the price movements of reinsurance companies. The Global Reinsurance Index is adjusted semi-annually and is calculated as total return index, i.e. dividends will be reinvested, and also as price return index (PR).

The Index is calculated and published in EUR.

### **1.1 Short name and ISIN**

The Global Reinsurance Index is distributed under ISIN DE000SLA1GR2; the WKN is SLA1GR. The Index is published in Reuters under the code <.GLORE> and in Bloomberg under the code GLORE <Index>. The Global Reinsurance Index (PR) is distributed under ISIN DE000SLA1GP6. The Index is published in Reuters under the code <.GLOREPR> and in Bloomberg under the code GLOREPR <Index>.

### **1.2 Initial value**

The Index is based on 100 at the close of trading on the start date, December 30th 2011.

### **1.3 Distribution**

The Global Reinsurance 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 Global Reinsurance Index via his information systems.

### **1.4 Prices and calculation frequency**

The price of the Global Reinsurance 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. If there are significant differences at the currency exchange rates the Committee decides which prices is 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 the pricing services of Boerse Stuttgart AG the Index cannot be distributed.

Any incorrect calculation is adjusted on a retrospective basis.

## **1.5 Weighting**

On each Adjustment Day each Index Component of the Global Reinsurance Index is weighted according to Free Float Market Capitalization.

The weight of each Index member is capped at 20% at the Adjustment Days. The remaining weight is distributed proportionally to all index members who are not capped.

## **1.6 Decision-making bodies**

A Committee composed of staff from Hannover Rück SE is responsible for decisions regarding the composition of the Global Reinsurance Index as well as any amendments to the rules ( in this document referred to as the "**Committee**" or the "**Index Committee**").

Members of the Committee can recommend at any time changes to the composition of the Index or 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 August 14th 2012.

## **1.9 Licencing**

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 Index Components**

The initial composition of the Index as well as any ongoing adjustments are based on the following rules:

On the Selection Days, Solactive AG provides the Selection Pool (see chapter 4 regarding selection criteria). The Committee may decide to include companies in the Selection Pool which do not fulfil the Liquidity Criterion.

From June 13<sup>th</sup>, 2018 going forward, the top 10 companies according to insurance premium earned from reinsurance activities (reinsurance) are chosen as Index members.

### **2.2 Ordinary adjustment**

The composition of the Index is ordinarily adjusted on the close of the last trading day of January and July. The composition of the Global Reinsurance Index is reviewed on the Selection Day and the appropriate decision made is announced.

The first adjustment will be made in January 2013.

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 the Global Reinsurance Index is removed from the Index between two Adjustment Days due to an Extraordinary Event, if necessary, the Committee shall designate a successor. The Global Reinsurance Index is adjusted on the same day. This is announced by Solactive AG after the close of business on the day on which the new composition of the Index was determined by the Committee. The same procedure is applied in case one of the exchange traded products used in the index calculation will be closed or ceases to exist.

## 3 Calculation of the Index

### 3.1 Index formula

The Global Reinsurance 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

### 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. This requires the new Number of Shares of the affected Index Component to be calculated on an ex-ante basis.

Following the Committee's decision the Global Reinsurance Index is adjusted 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 are included in the Index. They 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

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

### 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:

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

- xi,t = Number of Shares of Index Component i on the day of the distribution
- xi,t-1 = Number of Shares of Index Component i on the day prior to the distribution
- pi,t-1 = Closing price on the day prior to ex date
- rBi,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:

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

- Hit = Reduction ratio of the company on day t
- xi,t = Number of Shares of the affected Index Component on the day of the distribution
- xi,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:

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

$N_{i,t-1}$  = 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



## 4. Definitions

### 4.1 Index specific definitions

“**Selection Pool**” in respect of a Selection Day are companies that fulfil the following requirements:

- (a) The insurance premium earned from reinsurance activities has to account for at least 50% of total insurance premia. The reference figure are reinsurance activities for third parties. On every selection day, the last officially published annual financial statement is used to determine the selection pool.
- (b) Listing and Headquarter on a regulated stock exchange
- (c) A minimum Market capitalization of EUR 500 million

### 4.2 General Definitions

“**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.

“**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 Takeoverbid
- 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 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,

“**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**” 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 the Selection Pool 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 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 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.

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

The “**Index Currency**” is EUR.

“**Market Capitalization**” is with regard to each of the shares in the Selection Pool 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 Selection Pool 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 Selection Pool 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.

“**Business Day**” is every weekday from Monday to Friday.

“**Selection Day**” is 5 “**Business Days**”s before the “**Adjustment Day**”

“**Adjustment Day**” is the last “**Trading Day**” in January and July.

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.

## **5 Appendix**

### **5.1 Contact data**

#### **Information regarding the Global Reinsurance 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.