

Index Guide for 5X Long Index linked to Leoni AG V2

ISIN CH0429831172

This Index Guide describes the composition and calculation of the *Factor Index* specified below. The *Index Calculation Agent* makes the *Index Guide* available on the *Information Page*. The *Index Guide* constitutes the basis for calculating and publishing the *Factor Index*.

Index Name:	5X Long Index linked to Leoni AG V2 (der " Faktor-Index ")
Reference Instrument	Leoni AG
Index Calculation Agent:	Bank Vontobel AG, Gotthardstrasse 43, 8002 Zürich, Schweiz
Information Page:	https://indices.vontobel.com
Identifier:	ISIN: CH0429831172

This Index is part of the family of Vontobel Leveraged Long and Short indices ("**Faktor Indices**").

The Faktor Indices are not recognized financial indices but are customized indices conceived by Bank Vontobel AG in its capacity as Index Calculation Agent, their sole function being to act as underlying for this type of security (Factor Certificates).

The Index Calculation Agent will perform the calculation and composition of the Factor Index with the utmost care. However, the Index Calculation Agent does not guarantee that the calculation of the indices or of any other parameters required for the composition and calculation, as in accordance with this Index Guide, will be free from error.

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The original version of the Index Guide is in German; foreign-language versions constitute non-binding translations.

The composition and calculation of the *Factor Index* specified above is described in the following. The *Index Calculation Agent* will make an index guide available on the *Information Page* for each *Factor Index*, containing this description together with the stipulations in the Final Terms. The index guide constitutes the basis for calculating and publishing the *Factor Index*.

A) INDEX DESCRIPTION

The *Factor Index* reflects price movements in the *Reference Instrument* with a leverage factor of 5. An increase in the price of the *Reference Instrument* since the most recent calculation of an Index Closing Value results in a positive change in the *Factor Index* as compared to the previous price of the *Factor Index* and vice versa. The *Factor Index* therefore replicates a "long" strategy.

The *Factor Index* consists of a leverage component and a financing component.

Leverage component

The leverage component tracks an investment in the *Reference Instrument*, whereby movements in the price of the *Reference Instrument* are multiplied by the *Leverage* (Factor). This leverage effect occurs with either positive or negative movements in the price of the *Reference Instrument*, having a disproportionate effect on the value of the *Factor Index*. For example (leaving aside the financing component):

1. An increase in the price of the *Reference Instrument* (as compared to the most recent *Valuation Price* of the *Reference Instrument*) by 2% results in an increase in the *Factor Index* by 5 x 2%;
2. A decrease in the price of the *Reference Instrument* (as compared to the most recent *Valuation Price* of the *Reference Instrument*) by 2% results in a decrease in the *Factor Index* by 5 x 2%;

Financing component

The financing component tracks the capital costs that would be incurred in the event of a corresponding investment in the *Reference Instrument*. Additionally, a fee charged by the *Index Calculation Agent* for the calculation and administration of the *Factor Index* is added (*Index Fee*).

The financing component therefore reduces the value of the *Factor Index*.

B) INDEX DEFINITIONS

The definitions below shall apply for the purposes of this index description:

"**Adjustment Date**" means the first *Index Calculation Day* of each calendar month.

"**Extraordinary Adjustment Event**" means any of the following events as they relate to the *Reference Instrument*:

- (a) capital increase by way of the issue of new shares in return for contributions in cash or in kind with the grant of a subscription right, capital increase from retained earnings, issue of securities with option or conversion rights into shares, distribution of special dividends, share split, subdivision, consolidation or reclassification of the shares;
- (b) spin-off of a division of the company in such a manner that a new independent company is created or the division is absorbed by a third company;
- (c) probable or definitive cessation of stock exchange trading in the shares as a result of a merger by absorption or new company formation or takeover of the company of the underlying by another company;
- (d) any other event which the *Index Calculation Agent* may at its reasonable discretion deem to have a comparable or similar impact on the calculation of the *Factor Index* in the event no adjustment were to be made;

In case of securities representing shares (ADRs/GDRs) as the Reference Instrument, the following provisions (e) to (h) shall additionally apply:

- (e) modification of the terms and conditions of the securities representing shares by their issuers;
- (f) cessation of the stock exchange quotation of the securities representing shares or of the shares underlying them;
- (g) insolvency of the issuer of the securities representing shares;
- (h) end of the term of the securities representing shares as a result of termination by the issuer of the securities representing shares.

"**Valuation Price**" of the *Reference Instrument* for an *Index Calculation Day* means – subject to an *Extraordinary Adjustment* to the calculation of the index in accordance with section D) – the closing price of the *Reference Instrument*, as determined and published for that day by the *Reference Exchange*.

If an *Index Calculation Day* falls on a day which is not a *Trading Day*, the *Valuation Price* of the immediately preceding *Index Calculation Day* shall continue to apply. If no *Valuation Price* for the *Reference Instrument* is determined or

published on a *Trading Day*, the *Index Calculation Agent* shall determine the *Valuation Price* of the *Reference Instrument* for that day on the basis of the most recent prices set for the *Reference Instrument* at its due discretion.

"**Dividend**" shall mean the dividend of the company, exclusive of which the *Reference Instrument* is traded on the *Reference Exchange* on the *Ex-dividend Day*.

"**Dividend Tax Factor**" means 0.85 on the *Index Start Date*. The *Index Calculation Agent* may change the *Dividend Tax Factor* at its due discretion on any *Index Calculation Day* with prospective effect if the relevant tax law applicable to the *Index Calculation Agent* changes, resulting in a change in the amount of the – after tax – *Dividend* virtually accruing to it.

"**Ex-Dividenden Tag**" ist der *Handelstag*, an dem der *Referenzwert* an der *Referenzstelle* erstmals "ex Dividende" gehandelt wird.

"**Financing Spread**" represents (in the form of a premium over the relevant *Interest Rate*) the financing costs which may be incurred if the long strategy tracked by the *Factor Index* is financed with debt.

The *Financing Spread* on the *Index Start Date* corresponds to the *Initial Financing Spread*. The *Index Calculation Agent* then adjusts the "**Current Financing Spread**" in its due discretion on each *Adjustment Date* to reflect current market conditions and publishes it in accordance with section E) of this index description. The adjusted *Financing Spread* shall apply immediately as from the relevant *Adjustment Date*.

"**Initial Financing Spread**" means 0.80% per annum.

"**Trading Day**" means every day on which the *Reference Instrument* is traded on the *Reference Exchange*.

"**Leverage**" means 5. It describes the effect of a change in the *Reference Instrument* on the respective *Factor Index*.

"**Index Calculation Agent**" means Bank Vontobel AG, Gotthardstrasse 43, 8002 Zurich, Switzerland.

"**Index Calculation Day**" means every day from Monday to Friday.

"**Index Fee**" is 1.00% per annum. The *Index Fee* is charged each calendar day, beginning as of the *Index Start Date*. It is calculated on the basis of a 360-day year and the most recently calculated *Index Closing Value*.

"**Index Closing Value**" is calculated for each *Index Calculation Day* by the *Index Calculation Agent* in accordance with section C) 1) of this index description on the basis of the *Valuation Price* of the *Reference Instrument* for this *Index Calculation Day* and published in accordance with section E) of this index description.

"**Index Start Date**" means 24 August 2018.

"**Index Start Value**" means 1,000 index points and represents the *Index Closing Value* on *Index Calculation Day* T=0 for the purposes of calculating the index in accordance with C).

"**Index Currency**" means EUR.

"**Information Page**" means <https://indices.vontobel.com>.

"**Reference Instrument Price**" corresponds at any time during the trading period on the *Reference Exchange* to

"**Reference Exchange**" means XETRA.

"**Reference Instrument**" means Leoni AG.

Type:	Registered Share
Currency:	EUR
ISIN:	DE0005408884
Bloomberg Symbol:	LEO GY Equity

"**Barrier**" means -17%. It indicates the maximum permitted negative change in price of the *Reference Instrument* compared with its most recent *Valuation Price* before an *Intraday Index Adjustment* takes place.

"**Derivatives Exchange**" means Eurex.

"**Interest Rate**" means [tbd]. EONIA.

EONIA (Euro Over Night Index Average) is a weighted average interest rate for overnight interbank money calculated act/360 by the European Central Bank since 4 January 1999 on the basis of effective turnover.

If the *Interest Rate* is neither set nor published on an *Index Calculation Day*, the *Interest Rate* applied on the immediately preceding *Index Calculation Day* is used to calculate the *Index* in accordance with section C).

If the *Interest Rate* has neither been set nor published for ten consecutive *Index Calculation Days*, the *Index Calculation Agent* has the right and obligation to stipulate in its reasonable discretion an alternative relevant *Interest Rate* which has functions comparable to the previous *Interest Rate*.

C) INDEX CALCULATION

The *Factor Index* shall be calculated for the first time on the *Index Start Date*. The initial level of the *Index* on the *Index Start Date* corresponds to the *Index Start Value*. The respective current index level is calculated by the *Index Calculation Agent* on a continuous basis during the trading period of the *Reference Instrument* on the *Reference Exchange* on each *Index Calculation Day*, rounded to two decimal places and published in accordance with section E). One index point corresponds to one unit of the *Index Currency*.

C) 1) Index Formula

The *Factor Index* is calculated for each time t during an *Index Calculation Day T* in accordance with the following formula:

$$IDX_t = IDX_{T-1} \cdot \underbrace{\left(1 + L \cdot \left(\frac{R_t + divf \cdot div}{R_{T-1}} - 1 \right) \right)}_{\text{leverage component}} - \underbrace{\left[(L-1) \cdot (IR_{T-1} + FS_T) + IG \right] \cdot \frac{d}{360}}_{\text{financing component}}$$

where:

T :	current Index Calculation Day
IDX_t :	Index Value at time t on Index Calculation Day T
IDX_{T-1} :	Index Closing Value on Index Calculation Day $T-1$ which immediately precedes the current Index Calculation Day
L :	Leverage (Factor): 5
R_t :	Reference Instrument Price at time t
RT_{T-1} :	Valuation Price on Index Calculation Day $T-1$
$divf$:	Dividend Tax Factor
div :	Dividend on Index Calculation Day T . This amount is 0, except on the Ex-Dividend Date.
IR_{T-1} :	Interest Rate on Index Calculation Day $T-1$
FST :	Financing Spread on Index Calculation Day T
IG :	Index Fee
d :	Number of calendar days between Index Calculation Days $T-1$ and T

C) 2) Intraday Index Adjustment

If at time s on *Index Calculation Day T* the *Reference Instrument Price* (on an *Ex-Dividend Date*, plus *Dividend* multiplied by the *Dividend Tax Factor*: $R_s + divf \times div$) falls below the most recent *Valuation Price* of the *Reference Instrument* by more than -17% (*Barrier*), an "**Intraday Index Adjustment**" takes place, simulating a new day:

$$\begin{aligned} s &= T, \text{ i.e. } IDX_{T-1}(\text{new}) = IDX_s \\ R_{T-1}(\text{new}) &= R_{T-1}(\text{old}) \times 1.17 - divf \times div \\ d &= 0 \end{aligned}$$

A new *Valuation Price* valid after time s ($R_{T-1}(\text{new})$) is calculated by multiplying the previous *Valuation Price* ($R_{T-1}(\text{old})$) by 1.17. If *Index Calculation Day T* is an *Ex-Dividend Date*, the net dividend shall be deducted.

If the *Index Calculation Day T* is an *Ex-dividend Day* the newly simulated *Index Calculation Day* shall no longer be treated as *Ex-Dividend Date*, i.e. *Dividend* and *Dividend Tax Factor* shall not be considered in the index calculation in section C) 1) on such simulated *Index Calculation Day*.

The financing component remains unchanged. No additional costs are incurred for the newly simulated day.

D) EXTRAORDINARY ADJUSTMENT OF THE INDEX CALCULATION

In the event of an *Extraordinary Adjustment Event* occurring in relation to the *Reference Instrument*, the *Index Calculation Agent* will adjust the index calculation on the *Reference Date* (as defined below). The *Index Calculation Agent* will – to the extent possible – endeavour to calculate the *leverage component* as if no *Extraordinary Adjustment Event* had occurred.

The *Index Calculation Agent* will generally adjust the index calculation by correcting in its due discretion the relevant *Valuation Price* for the *Reference Instrument* on *Index Calculation Day T-1* on the *Reference Date*, in order to factor into

the index calculation the adjustments made on the *Derivatives Exchange* for futures and options linked to the *Reference Instrument* traded there.

The *Index Calculation Agent* may adjust the Index Calculation in some other manner if it deems this necessary in its due discretion in order to account for differences between this Factor Index and the futures and options traded on the *Derivatives Exchange*. Such adjustments may in particular relate to the *Reference Instrument* being replaced by a basket of shares, securities representing shares or other dividend-bearing securities or in the event of a merger by an appropriate number of shares, securities representing shares or other dividend-bearing securities issued by the absorbing or newly formed company and where necessary stipulating a different *Reference Exchange*, *Derivatives Exchange* and *Reference Instrument Price*.

The list of *Extraordinary Adjustment Events* listed in section B) is not exhaustive. The deciding factor is whether the *Derivatives Exchange* deems an adjustment of the contract size, an underlying or the involvement of relevant *Reference Exchange* determining the price of the *Reference Instrument* to be necessary. If neither futures nor options linked to the *Reference Instrument* are traded on the *Derivatives Exchange*, the adjustment shall be made in a manner in which the *Derivatives Exchange* would do so if corresponding futures or options were traded there. In cases of doubt about the application of the adjustment rules of the *Derivatives Exchange*, the *Index Calculation Agent* shall decide such questions in its reasonable discretion. The rules and regulations of the *Derivatives Exchange* shall apply in addition to the provisions set out above.

In the event that the company issuing the *Reference Instrument* underlying the Factor Index is liquidated or if insolvency, winding-up or similar proceedings are instituted against the assets of the company or if the possibility that such proceedings will be initiated becomes known, the price of the *Reference Instrument* will continue to be factored into the index calculation for as long as the price of the *Reference Instrument* continues to be determined on the *Reference Exchange*. However, if pricing in such a case is temporarily or permanently suspended, the leverage component shall remain unchanged and the index level will be determined solely on the basis of the other components of the index formula.

"Reference Date" within the meaning of this index description means the first *Index Calculation Day*, on which the relevant futures or options are traded on the *Derivatives Exchange* after taking the adjustment into account, or would be so traded if corresponding futures or options were traded on the *Derivatives Exchange*.

Adjustments relating to the Factor Index and all other measures taken under this section will be published by the Index Calculation Agent in accordance with section E).

E) NOTICES

All notices pertaining to the *Factor Index* will be published on the *Information Page*. Such notices shall be deemed to have been given on the date on which they are first published.

Notices are made for informational purposes only and do not represent a precondition for legal effectiveness.