

GUIDELINE

Solactive Single Stocks Leverage Index Family

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This document contains the underlying principles and regulations regarding the structure and the operating of the Solactive Single Stocks Leverage Index Family (the “Indices”). 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 Indices are 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 Indices. The publication of the Indices 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 Indices. Any changes made to the guideline are initiated by the Committee specified in Section 1.5. The Indices are calculated and published by Solactive AG. The name "Solactive" is copyrighted.

1 Index specifications

The Solactive Single Stocks Leverage Index Family (the "Indices") are Indices of Solactive AG and are calculated and distributed by Solactive AG.

The Single Stocks Leverage Index Family consists of 70 Indices. Each Index replicates the performance of a hypothetical investment in an Underlying Stock taking into account interest and borrow rates and according to a specific level of leverage.

The Indices are calculated and published in different currencies, see Section 5.3.

1.1 Short name and ISIN

The levels of the Indices are distributed under the identifiers stated in Section 5.3.

1.2 Initial value

The Indices are based on 1,000.00 at the close of trading on the Base Date.

1.3 Distribution

The Index is published via the price marketing services of Boerse Stuttgart AG and is distributed to all affiliated vendors. Each vendor decides on an individual basis as to whether he will distribute/display the Index via his information systems.

1.4 Prices and calculation frequency

The levels of the Indices are calculated on each Business Day based on the prices of the respective Underlying Stock. During the Calculation Time, the Indices are calculated based on the "Most recent prices". The Closing Calculation is conducted based on the "Most recent closing price".

The levels of the Indices are calculated on each Business Day and during each Calculation Time. The level of each Index is calculated continuously in 15-second intervals during these hours. In the event that data cannot be provided to Reuters or to the pricing services of Boerse Stuttgart AG, the Index cannot be distributed.

Any incorrect calculation is adjusted on a retrospective basis.

1.5 Decision-making bodies

A Committee composed of staff from Solactive AG is responsible for decisions regarding the composition of the Indices as well as any amendments to the rules (in this document referred to as the “Committee” or the “Index Committee”). The Committee shall also decide about the future composition of the Indices if any Extraordinary Events should occur and the implementation of any necessary adjustments. Where the Committee is required to act or to exercise judgment in any way, it will do so in good faith and a commercially reasonable manner.

Members of the Committee can recommend changes to the guideline and submit them to the Committee for approval.

1.6 Publication

All specifications and information relevant for calculating the Index are made available on the <http://www.solactive.de> web page and sub-pages.

1.7 Historical data

Historical data is available from the Base Date.

1.8 Licensing

Licences to use the Index as the underlying value for derivative instruments are issued to stock exchanges, banks, financial services providers and investment houses by Solactive AG.

2 Calculation of the Index

2.1 Index formula

Subject to Section 2.3 below and the occurrence of an Intraday Restrike Event, the Index Fixing Level on Business Day t in respect of an Index is calculated by the Index Calculator in accordance with the following formula:

$$I_t = \max \left[I_{t-1} * \left(1 + L * \left(\frac{UL_t}{UL_{t-1}} - 1 \right) - RC_t + ((1 - L) * (r_{t-1} + rs) + L * br_{t-1}) * \frac{DCF(t - 1, t)}{360} \right), 0 \right]$$

with:

I_t = Index Fixing Level on Business Day t

I_{t-1} = Index Fixing Level on Business Day t-1

UL_t = Underlying Stock official closing price at the Fixing Time on Business Day t

UL_{t-1} = Underlying Stock official closing price at the Fixing Time on Business Day t-1

L = Leverage factor, as defined in Section 5.3

RC_t = Rebalancing costs on Business Day t, calculated as follows:

$$RC_t = L * (L - 1) * \left(\left| \frac{UL_t}{UL_{t-1}} - 1 \right| \right) * TC$$

with:

TC = fixed Transaction cost, as defined in Section 5.3

D_t = Dividend of the Underlying Stock with an ex-date at Business Day t, as defined in Section 4

r_{t-1} = Interest Rate on Business Day t-1, as defined in Section 5.3

rs = Interest Rate Spread, as defined in Section 5.3

br_{t-1} = Borrow Rate on Business Day t-1, as defined in Section 5.3

$DCF(t - 1, t)$ = Number of calendar days from (but excluding) Business Day t-1 to (and including) Business Day t

2.2 Accuracy

The level of the Indices will be rounded to 3 decimal places by the Index Calculator.

2.3 Extraordinary Adjustment

If at any given moment θ during a Business Day t the Index Calculator determines that an "Intraday Restrike Event" has taken place in respect of an Index, which means the following condition holds:

(i) If $L > 0$

$$\frac{UL_{t,\theta}}{UL_{EA_{i-1}}} < 1 - EAT$$

(ii) If $L < 0$

$$\frac{UL_{t,\theta}}{UL_{EA_{i-1}}} > 1 + EAT$$

With

$UL_{t,\theta}$ = Underlying Stock price at moment θ on Business Day t

$UL_{EA_{i-1}}$ = Underlying Stock price in respect of the immediately preceding Intraday Restrike Event, provided that if there has been no preceding Intraday Restrike Date in respect of Business Day t , UL_{t-1}

EAT = Extraordinary Adjustment Threshold, as defined under Section 5.3

Then such moment θ is deemed to be an "Intraday Restrike Event Time" and we define the Underlying Stock price in respect of such Intraday Restrike Event i (" UL_{EA_i} ") as follows:

(i) If $L > 0$

$$UL_{EA_i} = \min_{v \in [\theta, \theta^+]} [UL_{t,v}]$$

(ii) If $L < 0$

$$UL_{EA_i} = \max_{v \in [\theta, \theta^+]} [UL_{t,v}]$$

With

$UL_{t,v}$ = Underlying Stock price at time v on Business Day t

$\min_{v \in [\theta, \theta^+]}$ = the minimum value of $UL_{t,v}$ during the relevant Intraday Restrike Event Observation Period

$\max_{v \in [\theta, \theta^+]}$ = the maximum value of $UL_{t,v}$ during the relevant Intraday Restrike Event Observation Period

and in such case the Index level shall be calculated by the Index Calculator at each calculation time w on Business Day t (including, for the avoidance of doubt in respect of the Index Fixing Level on Business Day t) in accordance with the following formulae:

$$I_{t,w} = \max \left[I_{EA_i} * \left(1 + L * \left(\frac{UL_{t,w}}{UL_{EA_i}} - 1 \right) \right), 0 \right]$$

With:

$$I_{EA_1} = \max \left[I_{t-1} * \left(1 + L * \left(\frac{UL_{EA_1}}{UL_{t-1} - D_t} - 1 \right) - L * (L - 1) * \left(\left| \frac{UL_{EA_1}}{UL_{t-1}} - 1 \right| \right) * TC + ((1 - L) * (r_{t-1} + rs) + L * br_{t-1}) * \frac{DCF(t-1, t)}{360} \right), 0 \right]$$

And for $i > 1$:

$$I_{EA_i} = \max \left[I_{EA_{i-1}} * \left(1 + L * \left(\frac{UL_{EA_i}}{UL_{EA_{i-1}}} - 1 \right) - L * (L - 1) * \left(\left| \frac{UL_{EA_i}}{UL_{EA_{i-1}}} - 1 \right| \right) * TC \right), 0 \right]$$

The period $[\theta, \theta^+]$ is the Intraday Restrike Event Observation Period.

If the Intraday Restrike Event Observation Period would not end by the Fixing Time, the Observation Period will be shortened so that the end time coincides with such Fixing Time.

2.4 Reverse Split

Each Index Fixing Level is reviewed every first Friday of the month.

If an Index Fixing Level on the previous Business Day $t-1$ is below 10, a reverse split is implemented on the 3rd Friday of the same month (or, if such day is not a Business Day, the immediately preceding Business Day). As at the Fixing Time on that day that Index Fixing Level will be multiplied by 100 and information about the reverse split will be published on the Solactive website.

3 Disruption Events, Modification and Recalculation

3.1 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](#).

3.2 Disruption Events

In periods of market stress Solactive AG calculates its indices following predefined and exhaustive arrangements set out in its publicly available [Disruption Policy](#).

3.3 Modification

Any Modification to the rules and any extraordinary decision by the Index Committee will be published on the Solactive website.

3.4 Adjustments due to (Extraordinary) Corporate Actions

As the Indices are based on the respective Underlying Stock, it could be that the Indices needs to be adjusted due to Corporate Actions or Extraordinary Corporate Actions. These Adjustments are described in our [Index Calculation Guideline](#) and in our [Guideline for Extraordinary Corporate Actions](#).

3.5 Merger Events

Notwithstanding anything to the contrary above, for the purposes of these guidelines and the Indices, Solactive AG shall, in respect of any Merger Event, on or after the relevant Merger Date: (A) make such adjustments to the terms of these guidelines as it determines appropriate to account for the economic effect of such Merger Event; and (B) determine the effective date of that adjustment, provided that if Solactive AG determines that no relevant adjustments will produce a commercially reasonable result, it shall cease to calculate and publish the Index as of the Merger Date.

3.6 Nationalisation, Insolvency or Delisting

Notwithstanding anything to the contrary above, for the purposes of these guidelines and the Indices, Solactive AG shall, in respect of any Nationalisation, Insolvency or Delisting, cease to calculate and publish the Index as of the Announcement Date.

Where Solactive AG is required to act or to exercise judgment in any way, it will do so in good faith and a commercially reasonable manner.

4 Definitions

“Announcement Date” means, in the case of (i) Nationalisation, the date of the first public announcement to nationalise (whether or not subsequently amended) that lead to the Nationalisation; (ii) Insolvency, the date of the first public announcement of the institution of a proceeding or presentation of a petition or passing of a resolution (or other analogous procedure in any jurisdiction) that leads to the Insolvency; and (iii) Delisting, the date of the first public announcement by the Exchange that the Underlying Stock will cease to be listed, traded or publicly quoted.

The **“Base Date”** is tbd.

“Borrow Rate” is a rate which a market participant needs to pay for lending an Underlying Stock, as provided by S3 Partners LLC and adjusted every quarter on the third Friday of such quarter (or, if such day is not a Business Day, the immediately [preceding] Business Day). The Committee may adjust the Borrow Rate intra-quarter to the extent it deems necessary, acting in good faith and a commercially reasonable manner, to reflect actual rates a market participant may need to pay.

“Business Day” means any weekday except Saturday and Sunday where the respective Exchange is scheduled to be open for trading for its regular trading session.

“Business Day t-1” means the Business Day immediately preceding Business Day t.

“Calculation Time” means, in respect of each Business Day and each Index, the time period during which the Indices are calculated, see Section 5.3.

“Closing Calculation” means, in respect of a Business Day, the calculation of the Indices at the relevant Fixing Times.

“Delisting” means that the Exchange announces that pursuant to the rules of such Exchange, the Underlying Stock ceases (or will cease) to be listed, traded or publicly quoted on the Exchange for any reason (other than a Merger Event) and is not immediately re-listed, re-traded or re-quoted on an exchange or quotation system located in the same country or any other member state of the European Union).

“Dividend” means (i) for any Index with a Leverage greater than zero the net dividend amount per share (considering any applicable Withholding Tax) declared by the issuer of the relevant Underlying Stock to holders of record of such Underlying Stock; and (ii) for any Index with a Leverage smaller than zero the gross dividend amount per share (without considering any Withholding Tax) declared by the issuer of the relevant Underlying Stock to holders of record of such Underlying Stock. The current applicable Withholding Taxes can be accessed [here](#).

“Extraordinary Event” is referring to the case if one or more underlyings cease to exist.

“Exchange” is referring to the Exchange where the Underlying Stock is listed, see Section 5.3.

“Fixing Time” means, in respect of each Index, as defined in Section 5.3.

“Index” means an index which belongs to the Solactive Single Stocks Leverage Index Family and defined in Section 5.3.

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

The “**Index Currency**” is defined in Section 5.3.

“**Insolvency**” means that by reason of the voluntary or involuntary liquidation, bankruptcy, insolvency, dissolution or winding-up of or any analogous proceeding affecting the issuer of the Underlying Stock, (A) all Underlying Stock of the issuer is required to be transferred to a trustee, liquidator or other similar official or (B) holders of the Underlying Stock of the issuer become legally prohibited from transferring such Underlying Stock.

“**Interest Rate**” is defined in Section 5.3.

“**Interest Rate Spread**” is defined in Section 5.3.

The “**Intraday Restrike Event Observation Period**” is in respect of an Intraday Restrike Event, the period starting on (but excluding) the Intraday Restrike Event Time and finishing on (and including) the time falling 10 minutes after the Intraday Restrike Event Time θ .

“**Merger Date**” means the closing date of a Merger Event or, where a closing date cannot be determined under the local law applicable to such Merger Event, such other date as determined by Solactive AG.

“**Merger Event**” means, in respect of the Underlying Stock, any consolidation, amalgamation, merger, spin-off or binding share exchange of the issuer of the Underlying Stock with or into another entity, person, entities or persons (other than a consolidation, amalgamation, merger or binding share exchange in which such issuer of the Underlying Stock is the continuing entity and which does not result in a reclassification or change of all such Underlying Stock outstanding).

“**Most recent price**” means, in respect of a Business Day t and a calculation time v , the most recently published average of the trade, bid and ask price of the underlying at or immediately before v , as provided by Reuters.

“**Most recent closing price**” means, in respect of a Business Day t , the most recently published official closing price by the Exchange as provided by Reuters.

“**Nationalisation**” means that all Underlying Stock or all or substantially all the assets of the issuer of the Underlying Stock are nationalised, expropriated or are otherwise required to be transferred to any governmental agency, authority, entity or instrumentality thereof.

“**Underlying Stock**” means, in respect of each Index, as defined in Section 5.3.

5 Appendix

5.1 Contact data

Information regarding the Index concept

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5.2 Calculation of the Index – change in calculation method

The application by the Index Calculator of the method described in this document is final and binding. The Index Calculator shall apply the method described above for the composition and calculation of the 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. The Index Calculator may also make changes to the terms and conditions of the Indices and the method applied to calculate the Indices, 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.

5.3 Index details

Name	ISIN	RIC	Underlying Stock	Currency	Exchange
Solactive Daily Leveraged 3x long Alibaba Index	tbd	.SOBABA3L	BABA.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x long Allianz Index	tbd	.SOALVG3L	ALVG.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Amazon Index	tbd	.SOAMZN3L	AMZN.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Apple Index	tbd	.SOAAPL3L	AAPL.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Astrazeneca Index	tbd	.SOAZN3L	AZN.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Barclays Index	tbd	.SOBARC3L	BARC.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Berkshire Hathaway Index	tbd	.SOBRK3L	BRKb.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x long BHP Index	tbd	.SOBLT3L	BLT.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long BP Index	tbd	.SOBP3L	BP.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long British American Tobacco Index	tbd	.SOBATS3L	BATS.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long BT Group Index	tbd	.SOBT3L	BT.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Daimler Index	tbd	.SODAIG3L	DAIGn.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Deutsche Bank Index	tbd	.SODBK3L	DBKgn.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Deutsche Lufthansa Index	tbd	.SOLHAG3L	LHAG.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Deutsche Telekom Index	tbd	.SODTEG3L	DTEGn.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Facebook Index	tbd	.SOFB3L	FB.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Gilead Index	tbd	.SOGILD3L	GILD.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Glaxosmithkline Index	tbd	.SOGSK3L	GSK.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Glencore Index	tbd	.SOGLEN3L	GLEN.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Google Index	tbd	.SOGOOG3L	GOOGL.OQ	USD	NASDAQ

Solactive Daily Leveraged 3x long HSBC Index	tbd	.SOHSBA3L	HSBA.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Infineon Index	tbd	.SOIFXG3L	IFXGn.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Lloyds Index	tbd	.SOLLOY3L	LLOY.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long McDonalds Index	tbd	.SOMCD3L	MCD.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x long Microsoft Index	tbd	.SOMSFT3L	MSFT.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Netflix Index	tbd	.SONFLX3L	NFLX.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Nvidia Index	tbd	.SONVDA3L	NVDA.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Royal Dutch Shell Index	tbd	.SORDS3L	RDSa.AS	EUR	Euronext Amsterdam
Solactive Daily Leveraged 3x long Snap Index	tbd	.SOSNAP3L	SNAP.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x long Starbucks Index	tbd	.SOSBUX3L	SBUX.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Tesla Index	tbd	.SOTSLA3L	TSLA.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x long Verizon Index	tbd	.SOVZ3L	VZ.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x long Vodafone Index	tbd	.SOVOD3L	VOD.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x long Volkswagen Index	tbd	.SOVOWG3L	VOWG_p.DE	EUR	Xetra
Solactive Daily Leveraged 3x long Wirecard Index	tbd	.SOWDIG3L	WDIG.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Alibaba Index	tbd	.SOBABA3S	BABA.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x short Allianz Index	tbd	.SOALVG3S	ALVG.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Amazon Index	tbd	.SOAMZN3S	AMZN.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Apple Index	tbd	.SOAAPL3S	AAPL.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Astrazeneca Index	tbd	.SOAZN3S	AZN.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short Barclays Index	tbd	.SOBARC3S	BARC.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short Berkshire Hathaway Index	tbd	.SOBRK3S	BRKb.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x short BHP Index	tbd	.SOBLT3S	BLT.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short BP Index	tbd	.SOBP3S	BP.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short British American Tobacco Index	tbd	.SOBATS3S	BATS.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short BT Group Index	tbd	.SOBT3S	BT.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short Daimler Index	tbd	.SODAI3S	DAIGn.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Deutsche Bank Index	tbd	.SODBK3S	DBKgn.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Deutsche Lufthansa Index	tbd	.SOLHAG3S	LHAG.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Deutsche Telekom Index	tbd	.SODTEG3S	DTEGn.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Facebook Index	tbd	.SOFB3S	FB.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Gilead Index	tbd	.SOGILD3S	GILD.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Glaxosmithkline Index	tbd	.SOGSK3S	GSK.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short Glencore Index	tbd	.SOGLEN3S	GLEN.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short Google Index	tbd	.SOGOOG3S	GOOGL.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short HSBC Index	tbd	.SOHSBA3S	HSBA.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short Infineon Index	tbd	.SOIFXG3S	IFXGn.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Lloyds Index	tbd	.SOLLOY3S	LLOY.L	GBP	London Stock Exchange
Solactive Daily Leveraged 3x short McDonalds Index	tbd	.SOMCD3S	MCD.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x short Microsoft Index	tbd	.SOMSFT3S	MSFT.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Netflix Index	tbd	.SONFLX3S	NFLX.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Nvidia Index	tbd	.SONVDA3S	NVDA.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Royal Dutch Shell Index	tbd	.SORDS3S	RDSa.AS	EUR	Euronext Amsterdam
Solactive Daily Leveraged 3x short Snap Index	tbd	.SOSNAP3S	SNAP.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x short Starbucks Index	tbd	.SOSBUX3S	SBUX.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Tesla Index	tbd	.SOTSLA3S	TSLA.OQ	USD	NASDAQ
Solactive Daily Leveraged 3x short Verizon Index	tbd	.SOVZ3S	VZ.N	USD	New York Stock Exchange
Solactive Daily Leveraged 3x short Vodafone Index	tbd	.SOVOD3S	VOD.L	GBP	London Stock Exchange

Solactive Daily Leveraged 3x short Volkswagen Index	tbd	.SOVOWG3S	VOWG_p.DE	EUR	Xetra
Solactive Daily Leveraged 3x short Wirecard Index	tbd	.SOWDIG3S	WDIG.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Alibaba Index	tbd	.SOBABA1S	BABA.N	USD	New York Stock Exchange
Solactive Daily Leveraged 1x short Allianz Index	tbd	.SOALVG1S	ALVG.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Amazon Index	tbd	.SOAMZN1S	AMZN.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Apple Index	tbd	.SOAAPL1S	AAPL.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Astrazeneca Index	tbd	.SOAZN1S	AZN.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Barclays Index	tbd	.SOBARC1S	BARC.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Berkshire Hathaway Index	tbd	.SOBRK1S	BRKb.N	USD	New York Stock Exchange
Solactive Daily Leveraged 1x short BHP Index	tbd	.SOBLT1S	BLT.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short BP Index	tbd	.SOBP1S	BP.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short British American Tobacco Index	tbd	.SOBATS1S	BATS.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short BT Group Index	tbd	.SOBT1S	BT.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Daimler Index	tbd	.SODAIG1S	DAIGN.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Deutsche Bank Index	tbd	.SODBKG1S	DBGn.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Deutsche Lufthansa Index	tbd	.SOLHAG1S	LHAG.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Deutsche Telekom Index	tbd	.SODTEG1S	DTEGn.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Facebook Index	tbd	.SOFB1S	FB.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Gilead Index	tbd	.SOGILD1S	GILD.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Glaxosmithkline Index	tbd	.SOGSK1S	GSK.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Glencore Index	tbd	.SOGLEN1S	GLEN.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Google Index	tbd	.SOGOOG1S	GOOGL.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short HSBC Index	tbd	.SOHSBA1S	HSBA.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Infineon Index	tbd	.SOIFXG1S	IFXGn.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Lloyds Index	tbd	.SOLLOY1S	LLOY.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short McDonalds Index	tbd	.SOMCD1S	MCD.N	USD	New York Stock Exchange
Solactive Daily Leveraged 1x short Microsoft Index	tbd	.SOMSFT1S	MSFT.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Netflix Index	tbd	.SONFLX1S	NFLX.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Nvidia Index	tbd	.SONVDA1S	NVDA.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Royal Dutch Shell Index	tbd	.SORDS1S	RDSa.AS	EUR	Euronext Amsterdam
Solactive Daily Leveraged 1x short Snap Index	tbd	.SOSNAP1S	SNAP.N	USD	New York Stock Exchange
Solactive Daily Leveraged 1x short Starbucks Index	tbd	.SOSBUX1S	SBUX.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Tesla Index	tbd	.SOTSLA1S	TSLA.OQ	USD	NASDAQ
Solactive Daily Leveraged 1x short Verizon Index	tbd	.SOVZ1S	VZ.N	USD	New York Stock Exchange
Solactive Daily Leveraged 1x short Vodafone Index	tbd	.SOVOD1S	VOD.L	GBP	London Stock Exchange
Solactive Daily Leveraged 1x short Volkswagen Index	tbd	.SOVOWG1S	VOWG_p.DE	EUR	Xetra
Solactive Daily Leveraged 1x short Wirecard Index	tbd	.SOWDIG1S	WDIG.DE	EUR	Xetra

RIC	Leverage	EAT in %	Interest Rate	Interest Rate Spread	Initial Borrow Rate	Calculation Time	Fixing Time
.SOBABA3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOALVG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET

.SOAMZN3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOAAPL3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOAZN3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOBARC3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOBRK3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOBLT3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOBP3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOBATS3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOBT3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SODAIG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SODBK3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOLHAG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SODTEG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOFB3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOGILD3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOGSK3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOGLEN3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOGOG3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOHSBA3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOIFXG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOLLOY3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOMCD3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOMSFT3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SONFLX3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SONVDA3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SORDS3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOSNAP3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOSBUX3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOTSLA3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOVZ3L	3	16.67	Fed Funds	0.01	n/a	8:30am - 4:30pm EST	4:30pm EST
.SOVOD3L	3	16.67	SONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOVOWG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOWDIG3L	3	16.67	EONIA	0.01	n/a	8:30am - 6pm CET	6pm CET
.SOBABA3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOALVG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOAMZN3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOAAPL3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOAZN3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBARC3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBRK3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOBLT3S	-3	16.67	SONIA	-0.005	0.005	8:30am - 6pm CET	6pm CET
.SOBP3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBATS3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBT3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SODAIG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SODBK3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOLHAG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SODTEG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET

.SOFB3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOGILD3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOGSK3S	-3	16.67	SONIA	-0.005	0.01	8:30am - 6pm CET	6pm CET
.SOGLEN3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOGOOG3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOHSBA3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOIFXG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOLLOY3S	-3	16.67	SONIA	-0.005	0.005	8:30am - 6pm CET	6pm CET
.SOMCD3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOMSFT3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SONFLX3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SONVDA3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SORDS3S	-3	16.67	EONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOSNAP3S	-3	16.67	Fed Funds	-0.005	0.0118	8:30am - 4:30pm EST	4:30pm EST
.SOSBUX3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOTSLA3S	-3	16.67	Fed Funds	-0.005	0.0181	8:30am - 4:30pm EST	4:30pm EST
.SOVZ3S	-3	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOVOD3S	-3	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOVOWG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOWDIG3S	-3	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOBABA1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOALVG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOAMZN1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOAAPL1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOAZN1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBARC1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBRK1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOBLT1S	-1	16.67	SONIA	-0.005	0.005	8:30am - 6pm CET	6pm CET
.SOBP1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBATS1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOBT1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SODAIG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SODBK1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOLHAG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SODTEG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOFB1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOGILD1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOGSK1S	-1	16.67	SONIA	-0.005	0.01	8:30am - 6pm CET	6pm CET
.SOGLEN1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOGOOG1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOHSBA1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOIFXG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOLLOY1S	-1	16.67	SONIA	-0.005	0.005	8:30am - 6pm CET	6pm CET
.SOMCD1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOMSFT1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SONFLX1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SONVDA1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SORDS1S	-1	16.67	EONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET

.SOSNAP1S	-1	16.67	Fed Funds	-0.005	0.0118	8:30am - 4:30pm EST	4:30pm EST
.SOSBUX1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOTSLA1S	-1	16.67	Fed Funds	-0.005	0.0181	8:30am - 4:30pm EST	4:30pm EST
.SOVZ1S	-1	16.67	Fed Funds	-0.005	0.003	8:30am - 4:30pm EST	4:30pm EST
.SOVOD1S	-1	16.67	SONIA	-0.005	0.003	8:30am - 6pm CET	6pm CET
.SOVOWG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET
.SOWDIG1S	-1	16.67	EONIA	-0.005	0.004	8:30am - 6pm CET	6pm CET