

INDEX GUIDELINE

Solactive FIIG Australian High Yield and Non-Rated Bond TR Index

Version 1.0

01 August 2019



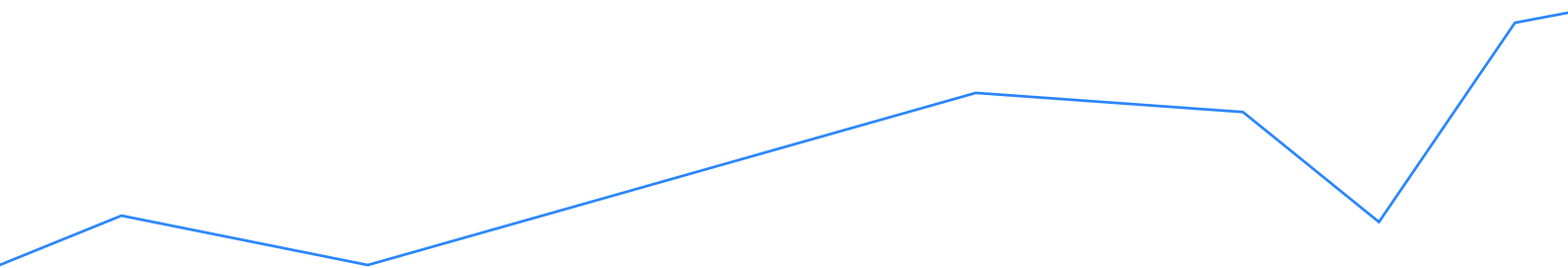
TABLE OF CONTENTS

Introduction	4
1 Index Specifications.....	6
1.1 Short name and ISIN	6
1.2 Initial value.....	6
1.3 Distribution	6
1.4 Prices and calculation frequency.....	6
1.5 Weighting	6
1.6 Oversight	7
1.7 Publication	7
1.8 Historical Data.....	7
1.9 Licensing.....	7
2 Composition of the Index	9
2.1 Selection of the Index components.....	9
2.2 Ordinary adjustment	9
3 Calculation of the Index	12
3.1 Index formula	12
3.2 Accuracy	13
3.3 Adjustments.....	13
3.6 Miscellaneous	15
3.6.1 Recalculation	15
3.6.2 Market Disruption	15
4 Definitions.....	17
5 Appendix.....	22
5.1 Contact data.....	22
5.2 Changes in calculation method	22



INDEX GUIDELINE

Introduction



Version 1.0 – 01 August 2019



INTRODUCTION

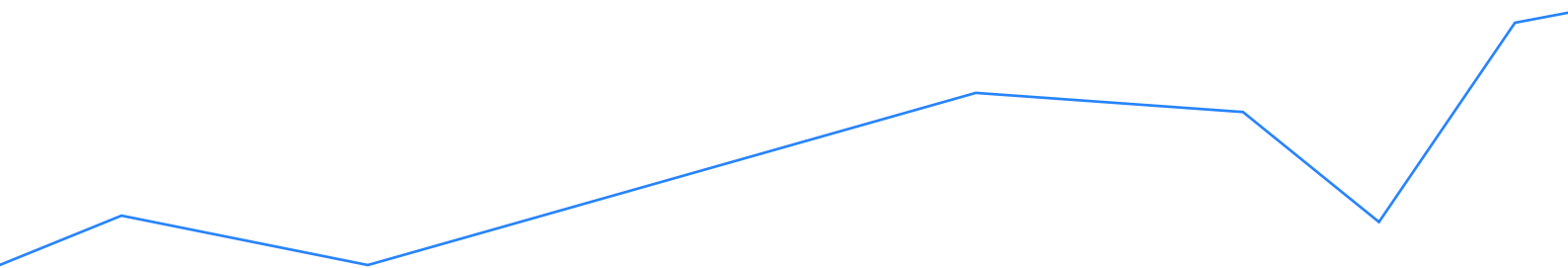
This document (the "Guideline") is to be used as a guideline with regard to the composition, calculation and maintenance of Solactive FIIG Australian High Yield and Non-Rated Bond TR Index (the "Index"). Any changes made to the Guideline are initiated by the Committee specified in Section 1.6. The Index is calculated and published by Solactive AG. The names "Solactive" and "FIIG" are trademarked.

The Guideline contains the underlying principles and rules regarding the structure and operation of 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.



INDEX GUIDELINE

Index Specifications



Version 1.0 – 01 August 2019



1 INDEX SPECIFICATIONS

The Solactive FIIG Australian High Yield and Non-Rated Bond TR Index is a rules-based, market value weighted index engineered to mirror the performance of the AUD-denominated Australian corporate bonds rated high yield or not rated.

1.1 SHORT NAME AND ISIN

The Index is distributed under the following identifiers:

Index	ISIN	RIC	Bloomberg Ticker
Solactive FIIG Australian High Yield and Non-Rated Bond TR Index	DE000SLA8RK9	.SOLFAUHY	SOLFAUHY

1.2 INITIAL VALUE

Solactive FIIG Australian High Yield and Non-Rated Bond TR Index will be calculated every Business Day starting on the 14th of May 2019. Before this date the Index values are backfilled from the 31st of December 2012, with the index values based on 1000 as at the close of trading on 31st of December 2012.

1.3 DISTRIBUTION

The Index is published via the price dissemination services of Boerse Stuttgart AG and is 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 Index levels are calculated on each Business Day based on the Evaluated Bid Prices of the Index Components. Newly added bonds are added at the Evaluated Ask Price. Index analytical values are calculated each Business Day using the Last Evaluated Price.

In the event that data cannot be provided to the pricing services of Boerse Stuttgart AG, the Index cannot be distributed.

1.5 WEIGHTING

The Index Components are weighted according to their respective market value in proportion to the aggregated market value of all Index Components in the Index, whereas no additional weight constraints are applied.



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 31st of December 2012.

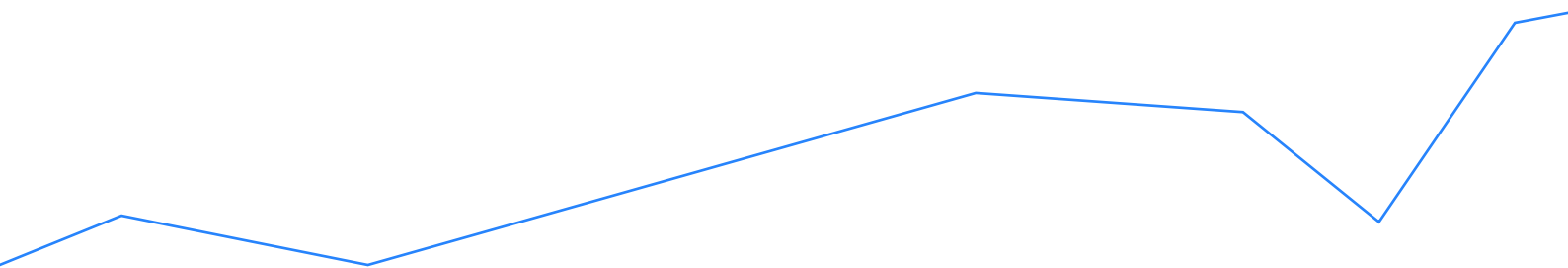
1.9 LICENSING

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 Solactive AG.



INDEX GUIDELINE

Composition of the Index



Version 1.0 – 01 August 2019



2 COMPOSITION OF THE INDEX

2.1 SELECTION OF THE INDEX COMPONENTS

At the launch of the Index, all financial instruments which meet the requirements of the Selection Pool are eligible for inclusion in the Index. After the launch of the index instruments issued prior to the Selection Day and which meet the criteria of the Selection Pool as defined below will be added on the Adjustment Day to the Selection Pool. Additionally, on the Selection Day, the Index Committee will evaluate whether all current Index Components still meet the requirements of the Selection Pool. Any Index Components that do not pass this screen will be removed from the Index on the next Adjustment Day.

The "Selection Pool" comprises bonds that fulfill the following conditions:

- a. Principal and coupon should be denominated in Australian dollars (AUD).
- b. Minimum Amount Outstanding of 20 million AUD is required.
- c. Only corporate domestic bonds are eligible.
- d. Issuers that are classified as Authorized Deposit-Taking Institutions by the Australian Prudential Regulation Authority (<https://www.apra.gov.au/register-authorized-deposit-taking-institutions>) are not eligible.
- e. Issuers should be domiciled in Australia.
- f. All bonds included must be rated sub-investment grade or not rated by S&P Global Ratings and Moody's Investors Service, i.e. below BBB- and below Baa3 respectively. For the avoidance of doubt if one of the rating agencies rates the bond as investment grade, it does not qualify for inclusion in the index. All ratings must be above D (default). If a bond is rated D by S&P or C by Moody's it is removed at the next Adjustment Day.
- g. Fixed Coupon Bonds, Zero Coupon bonds, Floating Rate Bonds, amortizing bonds are eligible. Step-Up Coupon Bonds with the predetermined schedule are included.
- h. fixed-to-floating rate coupon bonds qualify during the fixed term only and provided that there is more than 1 month prior to the date the bond transitions from a fixed to a floating rate coupon.
- i. Convertible Bonds, Inflation-Linked Bonds, contingent capital securities, Preferred Securities, Securitized or collateralized bonds or collateralized debt obligations (CDOs) are not eligible for inclusion in the index.
- j. Private placements and structured notes are excluded.
- k. Perpetual bonds are not eligible.



2.2 ORDINARY ADJUSTMENT

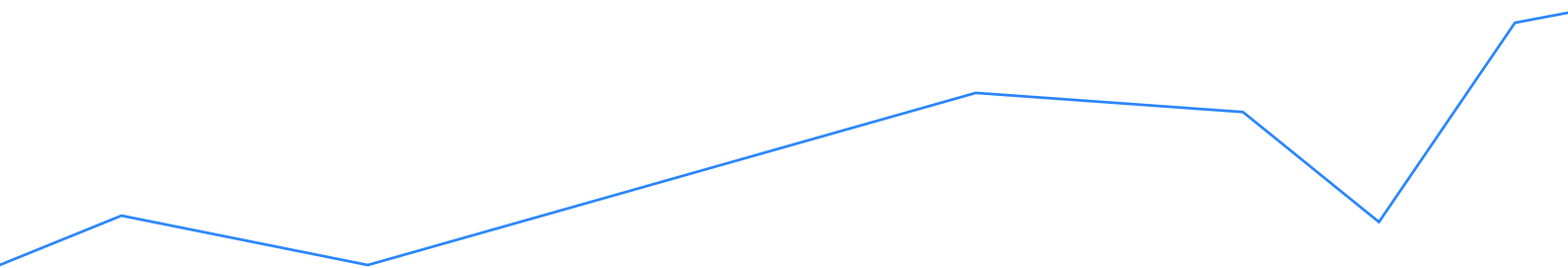
The composition of the Index is ordinarily adjusted on the Adjustment Day, which falls on the last Business Day of each month. Additionally, any income (e.g. resulting from coupon payments or Corporate Actions) is stored as a cash and reinvested proportionately across all Index Components on the Adjustment Day.

The composition of the Index is ordinarily reviewed on the Selection Day. The Selection Day is 6 Business Days prior to the Adjustment Day.



INDEX GUIDELINE

Calculation of the Index



Version 1.0 – 01 August 2019



3 CALCULATION OF THE INDEX

3.1 INDEX FORMULA

The Solactive FIG Australian High Yield and Non-Rated Bond TR Index corresponds to an Index type that implies periodic reinvestment of the cash component into the Index.

As a formula:

$$Index_t = Index_n \cdot \frac{MarketValue_t + Cash_t}{BaseValue_n}$$

$$BaseValue_t = \sum_{i=1}^a (Price_{i,n} + AI_{i,n} + Cap_{i,n} + CPAdj_{i,n}) \cdot SinkFactor_{i,n} \cdot Amt_{i,SD} \cdot CF_{i,SD} \cdot FX_{i,n}$$

$$MarketValue_t = \sum_{i=1}^a (Price_{i,t} + AI_{i,t} + Cap_{i,t} + CPAdj_{i,t}) \cdot SinkFactor_{i,t} \cdot Amt_{i,t} \cdot CF_{i,SD} \cdot FX_{i,t}$$

$$Cash_t = CashCoupon_t + CashSink_t + CashCA_t$$

$$CashCoupon_t = \sum_{i=1}^a CashCoupon_{i,t-1} + \sum_{i=1}^a Coupon_{i,t}/100 \cdot SinkFactor_{i,t-1} \cdot Amt_{i,t} \cdot CF_{i,SD} \cdot FX_{i,t}$$

$$CashSink_t = \sum_{i=1}^a CashSink_{i,t-1} + \sum_{i=1}^a SinkPayment_{i,t}/100 \cdot Amt_{i,t} \cdot CF_{i,SD} \cdot FX_{i,t}$$

$$CashCA_t = \sum_{i=1}^a CashCA_{i,t-1} + \sum_{i=1}^a (RedemptionPrice_{i,t} + AI_{i,t} + CAP_{i,t} + CPAdj_{i,t})/100 \cdot$$

$$\cdot SinkFactor_{i,t-1} \cdot Amt_{i,t-1} \cdot CF_{i,SD} \cdot FX_{i,t}$$

Whereas:

$AI_{i,t}$	Accrued interest of the bond i on day t
$Amt_{i,t}$	Amount Outstanding of bond i on day t
$Cap_{i,t}$	Capitalization rate of bond i on day t (only relevant for capitalizing bonds, otherwise the default value is 0)
$Cash_t$	Aggregated cash consisting of all payments made by index members up to and including day t, which is between two regular Adjustment Days. In Total Return indices, the Cash term includes cash derived from Corporate Actions and sink cash as well as coupon payments. On the next Selection Day, Cash is reinvested into the index and is set to 0
$CashCA_t$	Aggregated value of all extraordinary repayments resulting from Corporate Actions effective up to and including day t



$CashCoupon_{i,t}$	Aggregated value of all coupon payments made by index members up to and including day t
$CashSink_t$	Aggregated value of all early repayments of sinkable bonds up to and including day t
$CF_{i,SD}$	Capping factor of bond i on the last Selection Day. It is used to scale the weight of bond i defined on the last Selection Day
$Coupon_{i,t}$	Coupon value of bond i on day t
$CPAdj_{i,t}$	Variable coupon adjustment factor of bond i on day t. If the bond enters the index during the ex-dividend period, the factor is 0. If the bond is already in the index during the ex-dividend period, the variable coupon adjustment factor equals the coupon amount
$FX_{i,t}$	Foreign exchange rate of bond i on day t
$Index_t$	Value of the Index on day t
n	Last Rebalancing Day
$Price_{t,i}$	Clean price of bond i on day t
$RedemptionPrice_{i,t}$	Price at which bond i is redeemed due to a Corporate Action effective on day t
SD	Last Selection Day
$SinkFactor_{i,t}$	Sinking fund factor of bond i on day t (only relevant for sinkable bonds, otherwise default value is 1)
$SinkPayment_{i,t}$	Value of the early repayment of sinkable bond i on day t, which is a sink date. Sink payment is calculated as $(SinkFactor_{t-1} - SinkFactor_t) \cdot 100$
t	Business Day t which is between two regular Adjustment Days

3.2 ACCURACY

The displayed value of the Index will be rounded to 2 decimal places.

3.3 ADJUSTMENTS

Index need to be adjusted for market structure changes once they become effective. The Committee will regularly review the Index to determine if they need to be adjusted to take into account any market changes.

The following Extraordinary Events will result in changes or adjustments to the Index as indicated below between Adjustment Days:



- 1) Early Redemption or Full Call: any cash proceeds will be held as "Cash" and reinvested into the Index on the following Adjustment Day. For the avoidance of doubt a Tender must be mandatory, the pure offer to tender a bond will not lead to an adjustment of the Index.
- 2) Flat Trading: A bond is marked as flat trading if the bond issuer will not meet its coupon payment obligation. This means that the buyer of a bond is not responsible for paying the interest that has accrued since the last payment. If a bond is defined to be "flat trading" between two Adjustment Days the respective accrued interests and coupons will be set to 0. The bond will be removed on the next Adjustment Day, if it is identified as Flat Trading on Selection Day.
- 3) Defaulted Bonds: If the status of a bond changes to "In Default", the bond will remain as part of the Index at the last available Evaluated Price provided by the pricing source until the next regular Adjustment Day.
- 4) Exchange Offers:
 - a) Optional Exchange Offers: Optional Exchange Offers will not result in an adjustment of the Index*
 - b) Mandatory Exchanges Offers:
 - i. In the case when less than 90% of the Amount Outstanding is exchanged the exchange will not be considered to be an event that affects the relevant bond's position in the Index.
 - ii. In case more than 90% of the Amount Outstanding is exchanged the exchange will be considered in the index calculation by exchanging the relevant bonds, so that the new bond will receive the weight of the old exchanged bond.
- 5) The treatment of events for Fungible Bonds depends on whether:
 - a) The parent bond and the sub-tranche are both Index Components: Both bonds are kept in the Index until the next Adjustment Day. On the next Adjustment Day, the new bond will be removed and the Amount Outstanding of the parent bond will be increased by the amount of the new bond issue.
 - b) The parent bond is an Index Component and the sub-tranche is not: on the next Adjustment Day the Amount Outstanding of the parent bond will be increased by the amount of the sub-tranche.
 - c) The parent bond is not an Index Component but the sub-tranche is. The fund will be treated as an exchange into the parent bond, if it meets the index selection criteria with an amount equal to that of the sub-tranche. On the next Adjustment Day, the amount of the parent bond will be updated to include its full amount as of the Selection Day. If the parent bond does not fulfil the selection criteria, the fungible will be treated as a deletion and the sub-tranche will be removed from the Index at the latest available price.



- 6) Payment-in-Kind Bonds: These bonds pay interest in additional bonds rather than in cash. Assuming the additional bonds will be sold immediately, payments-in-kind are therefore considered as cash in all Total Return calculations.
- 7) Ex-dividend Bonds: "Ex-dividend" means that the next coupon is detached from the bond several days in advance of the coupon payment date. Between ex-date and pay-date a buyer of the bond does not get the right to receive the next coupon. Therefore, accrued interest is negative during that period. However, the coupon will be paid to the original bondholder, i.e. if a bond is already in the Index the next coupon payment is held separate in the Variable Coupon Adjustment Factor $CPAdj_{i,t}$. If the bond enters the index during the ex-dividend period $CPAdj_{i,t}$ is zero as the next coupon payment will not accrue to the Index.

*For the avoidance of doubt, an optional tender or exchange offer may lead to an index adjustment after the end of the submission period. In case the tender or exchange has been successful for at least 90% of the amount outstanding, the bond will be removed from the index/exchanged into the relevant bond.

In case of an Extraordinary Event that is not covered by the standard treatments mentioned above the Committee will meet and decide on how to treat the Extraordinary Event in the Index based on the information available. An extraordinary adjustment will only be implemented if the majority of the Committee supports the suggested treatment. As soon as a decision has been taken all parties related to the Index are informed about the Extraordinary Event as well as the decided treatment and date of implementation.

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](#).

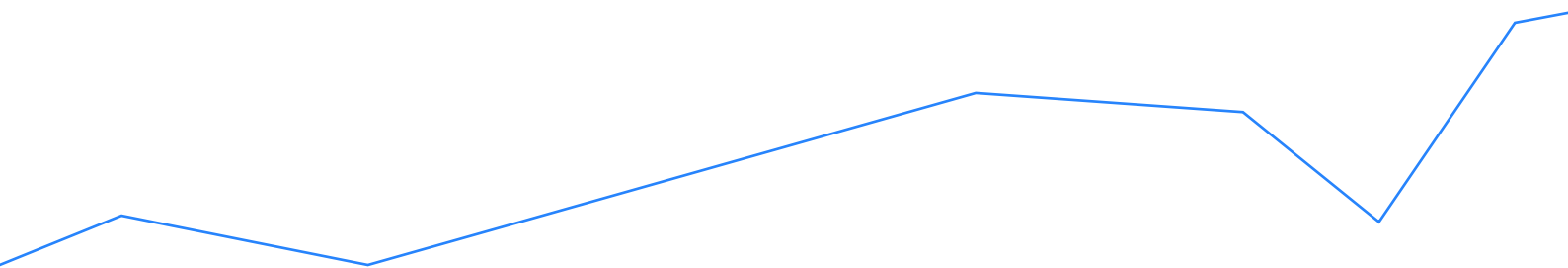
3.6.2 Market Disruption

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



INDEX GUIDELINE

Definitions



Version 1.0 – 01 August 2019



4 DEFINITIONS

“**Adjustment Day**” is the last Business Day of each month.

“**Amount Outstanding**” is the face value of the respective bond.

A “**Business Day**” in relation to the index is any day other than a Saturday or Sunday or a day on which the Australian Securities Exchange (ASX) is closed for business. The ASX Non-Business Days are New Year's Day, Australia Day, Good Friday, Easter Monday, Anzac Day, Queen's Birthday (for all states except Queensland and Western Australia), Christmas Day and Boxing Day.

“**Call**” means that a bond with a callable feature will be redeemed before the actual maturity date of the bond. The callable feature allows the issuer of the bond to retain the privilege of redeeming the bond before the actual maturity date.

“**Convertible Bonds**” are bonds that can be converted into a predetermined amount of the company's equity at certain times during its life.

“**Corporate Actions**” for bonds are unscheduled payments, other than standard coupon and maturity payments that may include calls, puts, repurchases, exchanges or consent solicitations for example.

“**Covered Bonds**” are bonds backed by cash flows or mortgages or public sector loans.

A “**Credit Event**” is the suspension of debt service, insolvency or failure to pay on time.

“**Early Redemption**” includes every event that leads to a redemption of a bond before the actual maturity date.

“**Ex-dividend**” means that the next coupon is detached from the bond several days in advance of the coupon payment date.

“**Exchange Offer**” means that the holder of a bond is invited to exchange the existing bond to another debt security.



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

- > an early redemption of the bond
- > a credit event

“Evaluated Ask Price” is the last available Ask Price evaluated by the designated Pricing Provider.

“Fixed Coupon Bonds” are bonds with a fixed coupon rate, as opposed to floating rate coupons.

A bond is marked as **“Flat Trading”** if the bond issuer will not meet its coupon payment obligation. This means that the buyer of a bond is not responsible for paying the interest that has accrued since the last payment.

“Floating Rate Bonds” are bonds with a variable or floating interest rate, i.e. coupons fluctuate in line with the underlying level of interest rates, as opposed to fixed-rate coupons.

A **“Fungible Bond”** is a new issue that has all the same specifications as an existing issue (bonds with the same parameters can be issued in different tranches). At a specific date, the tranches will be combined into one bond. After this date, the parent tranche will include the Amount Outstanding of all new tranches.

A bond is **“In Default”** when the issuer is not able to fulfil its bond payment obligations anymore after the applicable grace period.

“Index Components” are all bonds in the Selection Pool.

The **“Index Currency”** is AUD.

“Inflation-linked Bonds” are bonds whose principal is indexed to inflation.

“Issuer” is the issuing entity of the respective bond.



"Last Evaluated Price" generally is (aside from the rules referred to in "Extraordinary Events") the last available Evaluated Bid Price.

"Rebalancing Day" is the last Business Day of each month

"Paid Cash" is either the value of the coupon payments between Adjustment Days or the resulting payment when a bond is removed from the index between Adjustment Days. On the next Adjustment Day "Paid Cash" will be reinvested in the index.

"Payment-In-Kind Bonds" are a type of bonds that pay interest in additional bonds rather than in cash.

"Preferred Securities" combine both debt and equity characteristics.

"Securitized Bonds" are bonds secured against specific assets or receivables (ABS), mortgages (MBS) or cash flows.

"Selection Day" is a Business Day 6 Business Days prior to the Adjustment Day. If the Selection Day happens to be Christmas Eve the new composition is fixed 1 Business Day in advance.

"Sinking Fund Bonds" are bonds that are backed by a fund that sets aside money on a regular basis. A sinkable bond issuer is required to buy a certain amount of the bond back from the purchaser at various points throughout the life of the bond.

"Step-Up Coupon Bonds" are bonds whose coupons increase while the bond is outstanding. The coupon amounts are determined at issuance.

"Tender Offer" means that a holder of a bond is invited to tender the bond for a specific price at a specific time before the actual maturity date.

A **"Total Return Index"** measures the performance of the index components by assuming that all distributions are reinvested into the index, i.e. the index does not only reflect pure price movements.

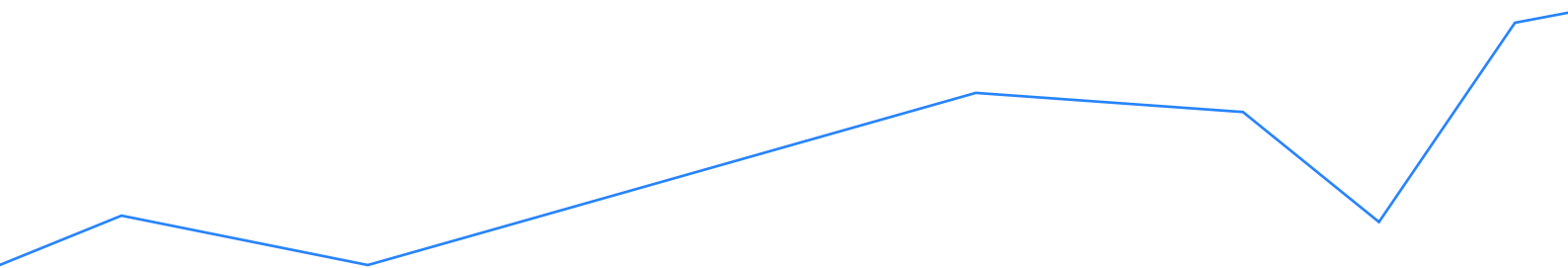


“Zero Coupon Bonds” do not pay interest but are issued at a discount.



INDEX GUIDELINE

Appendix



Version 1.0 – 01 August 2019



5 APPENDIX

5.1 CONTACT DATA

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5.2 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.