

**S&P Dow Jones
Indices**

A Division of **S&P Global**

iBoxx USD Liquid High Yield 0-5 Index Methodology

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Table of Contents

1	Markit iBoxx USD Liquid High Yield 0-5 Index	4
2	Bond selection rules	5
	2.1 Bond type	5
	2.2 Credit rating	6
	2.3 Time to maturity	6
	2.3.1 Time to maturity at issuance	7
	2.4 Issue amount outstanding	7
	2.5 Lockout period	7
	2.6 Exclusion of low price bonds	7
3	Bond classification	8
	3.1 Denomination	8
	3.2 Issuer	8
	3.3 Corporates	8
	3.4 Additional classification	10
	3.5 Issuer country	11
	3.6 Inclusion and exclusion of countries	11
4	Index calculation	12
	4.1 Static data	12
	4.2 Bond prices	12
	4.3 Rebalancing process	12
	4.3.1 Rebalancing procedure	12
	4.4 Index data	12
	4.5 Index Weights	13
	4.6 Index calculus	13
	4.7 Treatment of the special intra-month events	14
	4.7.1 Full redemptions: exercised calls, puts and buybacks	14
	4.7.2 Bonds trading flat of accrued	14
	4.7.3 Multi-coupon bonds	14
	4.7.4 Maturity extension	15
	4.7.4.1 Maturity extension for perpetual bonds without a reset date	15
	4.7.4.2 Maturity extension for perpetuals & dated fixed-to-fixed bonds with a reset date	15

4.8 Index history	15
4.9 Settlement conventions	15
4.10 Calendar	15
4.11 Publication of the Markit iBoxx USD Liquid High Yield 0-5 Indices	15
4.12 Data publication and access	16
4.13 Annual index review	16
5 Index Governance	17
6 Changes to the Markit iBoxx USD Liquid High Yield 0-5 Index	18
7 Further information	19
A ESG Disclosures	20
Disclaimer	21

1 Markit iBoxx USD Liquid High Yield 0-5 Index

The Markit iBoxx USD Liquid High Yield 0-5 Index is designed to reflect the performance of USD denominated short duration high yield corporate debt. The index offers exposure to liquid high yield corporate bonds maturing between 0 and 5 years and is rebalanced on a monthly basis. Only bonds with \$350 million minimum face value per bond are included in the index. The index uses a market-value weighted methodology with a cap on each issuer of 3%. The indices are an integral part of the global iBoxx index families, which provide the marketplace with accurate and objective indices by which to assess the performance of bond markets and investments.

The Markit iBoxx USD Liquid High Yield 0-5 Index is rebalanced once a month at the month-end (the “rebalancing date”) and consists of sub-investment grade USD denominated bonds issued by corporate issuers from developed countries and rated by at least one of three rating services: Fitch Ratings, Moody’s Investors Service, or Standard & Poor’s Rating Services.

The bonds in the Markit iBoxx USD Liquid High Yield 0-5 Index must meet all the criteria described below as of the close of business three business days prior to the rebalancing date provided that the relevant bond data can be verified, at S&P DJI’s sole discretion, as of such date (“bond selection cut-off date”). The new index composition becomes effective on the first business day of the next month (the “composition month”).

All iBoxx indices are priced based on multiple data inputs. The Markit iBoxx USD Liquid High Yield 0-5 Index follows the pricing methodology as described in the document *iBoxx Pricing Methodology* publicly available on <https://www.spglobal.com/spdji/en/> under *Methodology*.

This document covers the index selection rules and calculation methodology.

2 Bond selection rules

The following selection criteria are applied to select the constituents for the Markit iBoxx USD Liquid High Yield 0-5 Index:

- Bond type
- Credit rating
- Time to maturity
- Amount outstanding
- Classification
- Lockout period

2.1 Bond type

Only fixed-rate bonds whose cash flow can be determined in advance are eligible for the indices. The indices are comprised solely of bonds. T-Bills and other money market instruments are not eligible. The Markit iBoxx USD Liquid High Yield 0-5 indices include only USD denominated bonds.

In particular, bonds with the following characteristics are included:

- Fixed coupon bonds
- Step-up bonds with coupon schedules known at issuance (or as functions of the issuer's rating)
- Sinking funds and amortizing bonds
- Medium term notes ("MTNs")
- Rule 144A offerings
- Callable bonds
- Puttable bonds
- Pay-in kind bonds

The following instrument bond types are specifically excluded from the indices:

- Preferred shares
- Optionally and mandatory convertible bonds
- Subordinated bank or insurance debt with mandatory contingent conversion features or with any conversion options before the first call date is ineligible for the index
- Bonds with other equity features attached (e.g., options/warrants)
- Private placements. The list of private placements is updated every month and published on <https://www.spglobal.com/spdji/en/> under *Indices News*. Partial private placements where information on the specific amounts publicly placed and privately placed can be ascertained are included in the indices with the amount publicly placed. If the amount publicly placed is below the cut-off, the bond is not included in the indices.
- Perpetual bonds (unless callable with eligible expected remaining life as per chapter 2.3)
- Floating rate notes
- Zero coupon bonds
- Zero step-ups (GAINS)
- Bonds with differences between accrual and coupon payment periods and monthly-paying bonds.
- Regulation S offerings
- Extended bonds as defined under section 'Maturity extension' in this document

For private placements, publicly available information is not always conclusive and the classification of a bond as a private placement will be made at S&P DJI's discretion based on the information available at the time of determination. Any bond classified as private placement is added to the list of excluded private placements. The list is published on <https://www.spglobal.com/spdji/en/> under *Indices News* for future reference and to ensure decision's consistency.

In instances where a new bond type is not specifically excluded or included according to the published index rules, S&P DJI will analyse the features of such securities in line with the principles set out in 2.1 of this guide. S&P DJI may consult specific Index Committees. Any decision as to the eligibility or ineligibility of a new bond type will be published and the index rules will be updated accordingly.

2.2 Credit rating

All bonds in the Markit iBoxx USD Liquid High Yield 0-5 Index must have an iBoxx Rating of sub-investment grade.

Ratings from the following three credit rating agencies are considered for the calculation of the iBoxx Rating:

- Fitch Ratings
- Moody's Investor Service
- S&P Global Ratings

Sub-investment grade is defined as BB+ or lower from Fitch Ratings or S&P Global Ratings and Ba1 or lower from Moody's Investor Service, but not in default.

If a bond is rated by more than one of the above agencies, then the iBoxx rating is the average of the provided ratings. The rating is consolidated to the nearest rating grade. Rating notches are not used. For more information on how the average rating is determined, please refer to the *iBoxx Rating Methodology* document available at <https://www.spglobal.com/spdji/en/> under *Methodology*.

Defaulted bonds are ineligible for the index. Bonds that are in default or that trade flat of accrued are removed from the index at the first rebalancing following the default/start of trading flat of accrued. Issues rated D by Fitch Ratings or S&P Global Ratings or that have been subject to a default press release by Moody's Investor Service cannot enter the index; those issues in the index that are subsequently downgraded to D by S&P Global Ratings or Fitch or are subject to a default press release by Moody's Investor Service (as of the bond selection cut-off date) will be taken out of the index on the next rebalancing date. In case of an ID change or exchange of a 144A version into a registered bond the ratings from the 144A bond are also used for the registered bond.

Bonds with a rating downgrade to RD/SD will remain eligible in the Markit iBoxx USD Liquid High Yield 0-5 Index until the second rebalancing after the downgrade. If such bonds have not been upgraded by T-3 of the second rebalance following the initial downgrade, they will be removed from the index. This means RD/SD rated bonds remain eligible in the Markit iBoxx USD Liquid High Yield 0-5 Index for the first rebalancing after their downgrade to allow for sufficient time to complete a distressed debt exchange or change of terms (assuming they meet all other criteria).

2.3 Time to maturity

All bonds must have at the rebalancing day a final maturity:

- Of at most five years, and
- All new insertions must have at least 6 months to final maturity from the rebalancing date

Bonds are kept in the index until maturity.

2.3.1 Time to maturity at issuance

All bonds must have at issuance a time to final maturity of at least 1 year and maximum 15 years.

2.4 Issue amount outstanding

The outstanding face value of a bond must be greater than or equal to USD 350 million as of the bond selection cut-off date. Partial buybacks or increases affect the outstanding face value of a prospective bond. S&P DJI considers changes to the outstanding face value of a candidate bond as a result of partial or full buybacks or increases, provided that S&P DJI is aware of such changes as of the bond selection cut-off date.

2.5 Lockout period

A bond that drops out of the Markit iBoxx USD Liquid High Yield 0-5 Index at the rebalancing day is excluded from reentering the index for a three-month period.

The rule for the lockout period takes precedence over the other rules for the Markit iBoxx USD Liquid High Yield 0-5 Index selection. A locked out bond will not be selected, even if it qualifies for the index.

2.6 Exclusion of low price bonds

Bonds with a price of less than 60 as of the last trading day of the month are excluded from the index at the rebalancing date.

3 Bond classification

All bonds are classified based on the principal activities of the issuer and the main sources of the cash flows used to pay coupons and redemptions. In addition, a bond’s specific collateral type or legal provisions are evaluated. Hence, it is possible that bonds issued from different subsidiaries of the same issuer carry different classifications.

The issuer classification is reviewed regularly based on updated information received by S&P DJI, and status changes are included in the index at the next rebalancing if necessary.

Where the sector classification of a specific entity is not clear due to the diversified business of the entity, a decision is made at S&P DJI's discretion. S&P DJI assigns the classification according to its evaluation of the business risk presented in the security prospectus and annual reports, if available. S&P DJI also compares the classification to peers in the potential sectors. Membership lists including classification are published on the FTP server and in the *Indices* section of the webpage for registered users.

3.1 Denomination

Bonds must be denominated in USD.

3.2 Issuer

The bond must be corporate credit, i.e., debt instruments backed by corporate issuers that are not secured by specific assets. Debt issued by governments, sovereigns, quasi-sovereigns, and government-backed or guaranteed entities is excluded.

For the purposes of selecting candidates for the index, an “issuer” is defined by the Bloomberg ticker (i.e., all bonds sharing a ticker are attributed to the same issuer).

3.3 Corporates

Bonds issued by public or private corporations. Bonds secured by a ‘floating charge’ over some or all assets of the issuer are considered corporate bonds. Corporate bonds are further classified into Financials and Non-Financials bonds and then into their multiple-level economic sectors, according to the issuer’s business scope. The category Guaranteed & Wrapped is added under Financials for corporate bonds whose timely coupon and/or principal payments are guaranteed by a non-affiliated insurer or through a letter of credit from a non-affiliated bank. Each bond in the index is assigned to one of the following sectors.

Table 1: Overview of Markit iBoxx Corporates Sectors

	Economic Sector	Market Sector	Market Sub-Sector
Financials	Core Financials	Banks	Banks
		Insurance	Life Insurance
			Nonlife Insurance
	Financial Services	Financial Services	General Financial
			Equity Investment Instruments
			Nonequity Investment Instruments

	Economic Sector	Market Sector	Market Sub-Sector
		Guaranteed & Wrapped	*
	Real Estate	Real Estate	Real Estate Investment & Services
			Real Estate Investment Trusts
Non-Financials	Energy	Oil & Gas	Oil & Gas Producers
			Oil Equipment / Services & Distribution
		Renewable Energy	Renewable Energy
	Basic Materials	Chemicals	Chemicals
		Basic Resources	Industrial Metals
			Mining
			Forestry & Paper
	Industrials	Construction & Materials	Construction & Materials
		Industrial Goods & Services	Aerospace & Defense
			Electronic & Electrical Equipment
			General Industrials
			Industrial Engineering
			Industrial Transportation
			Support Services
	Consumer Goods	Automobiles & Parts	Automobiles & Parts
		Food & Beverage	Beverages
			Food Producers
		Personal & Household Goods	Household Goods
			Personal Goods
			Tobacco
			Leisure Goods
	Health Care	Health Care	Pharmaceuticals & Biotechnology
			Health Care Equipment & Services
	Consumer Services	Retail	Food & Drug Retailers
			General Retailers
		Media	Media
		Travel & Leisure	Travel & Leisure
Education		Academic & Educational Services	
Telecommunications	Telecommunications	Integrated Telecommunications	
		Wireless Telecommunications	

	Economic Sector	Market Sector	Market Sub-Sector
	Utilities	Utilities	Electricity
			Gas / Water & Multiutilities
	Technology	Technology	Software & IT Services
			Technology Hardware & Equipment

3.4 Additional classification

Corporate debt is further classified into senior and subordinated debt. Non-core-financials senior debt differentiates between Senior Secured and Senior Unsecured bonds. Bank senior debt structure additionally differentiates between Bail-in and Preferred bonds. The Bail-in classification captures all senior notes which are subject to write-down or conversion into a subordinated instrument on the occurrence of a resolution event, as well as senior bank debt issued by bank holding companies.

Hybrid capital issued by banking and insurance institutions is further detailed into the respective tiers of subordination.

The market information on the tier of subordination for insurance capital is often less standardized and clear than the equivalent issues by banks. In these cases, the classification is based on the maturity, coupon payment and deferral provisions of the bond from the offering circulars of the bonds. The table below displays the seniority classification of debt issued by both financial and non-financial sectors.

Table 2: Overview of seniority levels

Market Sector	Seniority Level 1	Seniority Level 2	Seniority Level 3	
Bank	SEN	Preferred	*	
		Bail-in	*	
	SUB	T2 (post-Jan '13 issuances)		T2 callable
				T2 non-callable
		T2 (pre-Jan '13 issuances)		LT2 callable
				LT2 non-callable
				UT2
			T1	T1 step
		T1 non-step		
Insurance	SEN	*	*	
	SUB	T3	*	
		T2 dated		T2 dated callable
				T2 dated non-callable
		T2 perpetual	*	
		T1	*	
Other sectors	SEN	Senior Secured	*	
		Senior Unsecured	*	
	SUB	Other	Hybrid ¹	

Market Sector	Seniority Level 1	Seniority Level 2	Seniority Level 3
			Non-hybrid

** Bonds will be required to fulfil the following criteria to be considered hybrids:

- Subordinated
- Deferrable coupons
- First non-call period \geq 5 years
- Either perpetual or 'long-dated', where 'long-dated' is defined as $>$ 25 years of the time to maturity at issuance

3.5 Issuer country

Bonds from countries classified as developed markets based on the "S&P Global iBoxx Global Economic Development Classification Methodology" are eligible for the index.

The issuer or, in the case of a finance subsidiary, the issuer's guarantor, must be domiciled, incorporated and the country of risk must be in the countries listed as developed markets in "S&P iBoxx Country Classifications".

The classification is available at: <https://www.spglobal.com/spdji/en/> under Methodology -> S&P iBoxx Country Classifications

3.6 Inclusion and exclusion of countries

A new country is added to the index if it is classified as developed market based on the "S&P Global iBoxx Global Economic Development Classification Methodology".

A country is no longer eligible for the index if it is classified as emerging market based on the "S&P Global iBoxx Global Economic Development Classification Methodology". The "S&P Global iBoxx Global Economic Development Classification Methodology" is updated once per year. The results are published at the end of July. The inclusion/exclusion of a country becomes effective at the end of October.

4 Index calculation

4.1 Static data

Information used in the index calculation is sourced from offering circulars and checked against standard data providers.

4.2 Bond prices

For more details, please refer to the *iBoxx Pricing Methodology* document, available in the *Methodology* section of the webpage at <https://www.spglobal.com/spdji/en/>.

4.3 Rebalancing process

The index rebalances monthly after market close on the last business day of the month. Any inclusion after the index cut-off day (T-3) is not considered in the rebalancing process but becomes effective at the end of the following month. New bonds issued are considered if publicly known to settle until the last calendar day of the month, inclusive, and if the rating and amount outstanding has become known at least three trading days before the end of the month.

Preview lists of eligible bonds are published on a weekly basis starting on the first Friday three business days after the previous month-end rebalance, as well as on the sixth calendar day of the month (or next index publication day if the sixth calendar day falls on a non-business day). Preview lists of eligible bonds are additionally published on before the end of the month. Final components are published two business days before the end of the month (T-2).

Two business days before the end of each month, the rating and amount information for the constituents is updated and the list is adjusted for all rating and amount changes which are known to have taken place three business days before the end of the month which could also result in exclusion of the bond. However, if bonds which are part of broader U.S. Dollar indices become eligible into the Index two business days prior to rebalancing because of rating and/or amount changes, the bonds are included in the index.

4.3.1 Rebalancing procedure

In a first step the selection criteria set out in chapter 2 are applied to the universe of USD denominated bonds.

- Bond ratings and amount outstanding are used as of the bond selection cut-off date
- Maturity dates remain fixed for the life of the bond
- Only bonds with a first settlement date on or before the rebalancing date are included in the selection process

4.4 Index data

The calculation of the index is based on bid prices. New securities are included in the index at their respective ask prices when they enter the index family. If no price can be established for a particular security, the index continues to be calculated based on the last available price. This might be the case in periods of market stress, or disruption as well as in illiquid or fragmented markets. If the required inputs

become impossible to obtain, S&P DJI may consult market participants prior to the next rebalancing date. Decisions are made publicly available on a timely basis and S&P DJI may refer back to previous cases.

The rebalancing takes place after close of market on the last trading day of a rebalancing month.

4.5 Index Weights

Once the eligible bond universe has been defined, the weight for each bond is determined and if necessary capped, applying an issuer cap of 3%. The weights and capping factors are determined on the last business day of each month using the end-of-month market values.

4.6 Index calculus

The components of the total return are price changes, accrued interest, coupon payments, and reinvestment income on cash flows received during the composition month.

$$TR_t = TR_{t-s} \frac{\sum_{i=1}^n \left(P_{i,t} + A_{i,t} + XD_{i,t-s} \cdot (CP_{i,t} + G_{i,t}) \right) \cdot N_{i,t-s} + CASH_{t-1} \cdot \left(1 + SOFR_{t-2USBD} \cdot days_{ACT/360}(t-1, t) \right)}{\sum_{i=1}^n \left(P_{i,t-s} + A_{i,t-s} + XD_{i,t-s} \cdot CP_{i,t-s} \right) \cdot N_{i,t-s}}$$

where,

$A_{i,t}$	is the accrued interest of bond i on calculation day t
$A_{i,t-s}$	is the accrued interest of bond i on rebalancing day t-s
$CASH_{t-1}$	is the cash on the previous business day
$CP_{i,t}$	is the value of the next coupon payment of bond i during an ex-dividend period. Outside the ex-dividend period, this value is 0
$G_{i,t}$	is the value of any coupon payment received from bond i at time t. If there is no payment the value is 0
$N_{i,t-s}$	is the amount outstanding of bond i on the previous rebalancing day t-s
$days_{ACT/360}(t-1, t)$	is the number of days between the previous calculation date (t-1) and the current calculation date t
$P_{i,t}$	is the closing price of bond i on the last business day on or before the previous rebalancing day
$P_{i,t-s}$	is the closing price of bond i on the last business day on or before the previous rebalancing day
$SOFR_{t-2USBD}$	is the SOFR rate falling two U.S. Government Securities Business Days prior to the calculation day i
TR_t	is the total return index level on day t
TR_{t-s}	is the closing total return index level on the previous rebalancing day
$XD_{i,t-s}$	is ex dividend indicator flag. The value is 0, if the bond enters the index at the ex-dividend period. The value is 1, if (a) coupon payments are not ex-dividend, (b) has not entered the index during an ex-dividend period, or (c) entered the index during a previous ex-dividend period

For specific index formulae please refer to *iBoxx Bond Index Calculus* document available at <https://www.spglobal.com/spdji/en/> under *Methodology*.

4.7 Treatment of the special intra-month events

Data for the application of corporate actions in the index may not be fully or timely available at all times, e.g. the final call prices for make-whole calls or the actual pay-in-kind percentage for PIK-payment options. In such cases, S&P DJI will estimate the approximate value based on the available data at the time of calculation.

4.7.1 Full redemptions: exercised calls, puts and buybacks

If a bond is fully redeemed intra-month, the bond effectively ceases to exist. In all calculations, the redeemed bond is treated as cash based on the last price, the call price or repurchase price, as applicable. The redemption factor, redemption and the redemption price are used to treat these events in the index and analytics calculation. In addition, the clean price of the bond is set to the redemption price, and the interest accrued until the redemption date is treated as an irregular coupon payment.

4.7.2 Bonds trading flat of accrued

If a bond is identified as trading flat of accrued, the accrued interest of the bond is set to 0 in the total return index calculation and is excluded from the calculation of all bond and index analytical values.

Bonds will be considered trading flat of accrued in any of the following situations:

- a bond has been assigned a default rating and/or
- issuer has announced a failure to pay a coupon and/or
- issuer has announced an intention not to make a payment on an upcoming coupon (grace period).

4.7.3 Multi-coupon bonds

Some bonds have pre-defined coupon changes that lead to a change in the annual coupon over the life of the bond. In all instances, the coupon change must be a fixed amount on top of a fixed coupon, i.e. floating coupon bonds are not eligible for the indices. The two main categories of bonds are step-up bonds and event-driven bonds.

- **Step-up bonds:** These are bonds with a pre-defined coupon schedule that cannot change during the life of the bond. The coupon schedule is used in all bond calculations.
- **Event-driven bonds:** These are bonds whose coupon may change upon occurrence (or non-occurrence) of pre-specified events, such as rating changes, e.g. rating-driven bonds, failure to register (register-driven bonds), or failure to complete a merger (merger-driven bonds). In the calculation of the indices and the analytics, the coupon schedule as of the calculation date is used. That is to say, any events occurring after the calculation date are ignored in the determination of the applicable coupon schedule. *Example of an event-driven bond:* A bond's rating changes on 31 December 2003 from A- to BBB+ and the coupon steps up from 6% to 6.25% from 1 March 2004 onward. The coupon dates are 1 October and 1 April each year. The correct coupon schedule for the bond and index calculations is date dependent. The index calculation on 20 December 2003 uses the 6% coupon for the whole life of the bond, while the calculation on 31 January 2004 uses a 6% coupon for the current coupon period to 29 February 2004, and a 6.25% coupon for all later interest payments. The index calculation on 20 March uses a 6% coupon until 29 February, a 6.25% coupon for the remainder of the current coupon period and a 6.25% coupon for all future coupon payments. The index calculation after 1 April uses a 6.25% coupon.

4.7.4 Maturity extension

4.7.4.1 Maturity extension for perpetual bonds without a reset date

Maturity	Coupon/call structure	Workout date at issuance	Updated Workout date if not called
Perpetual	Fixed/ Callable	Assume first call date as workout date	Extend workout date until the assumed next call date - 5 years from first call date*.

*Assumes the terms allow for a redemption at the new assumed maturity date.

4.7.4.2 Maturity extension for perpetuals & dated fixed-to-fixed bonds with a reset date

Maturity	Coupon/Call structure	Workout Date at issuance	Updated Workout date if not called
Perpetual	Reset*/Callable	Assume first call date as workout date	Extend workout date until the end of the next reset date*
Dated	Reset/Callable	Assume reset date as workout date	Extend workout date until the end of the next reset date or final maturity date*

*Assumes the bond terms allow for a redemption at the new assumed maturity date

4.8 Index history

The Index history starts on 30 April 2010. The index has a base value of 100 on that date.

4.9 Settlement conventions

All iBoxx indices calculate using the assumption of T+0 settlement days.

4.10 Calendar

S&P DJI publishes an index calculation calendar available on <https://www.spglobal.com/spdji/en/> under *iBoxx Indices Calendars*. This calendar provides an overview of the index calculation holidays of the iBoxx bond index families each year.

4.11 Publication of the Markit iBoxx USD Liquid High Yield 0-5 Indices

All indices are calculated as end-of-day and distributed once daily. The indices are calculated every day except on common U.S. bank holidays. In addition, the indices are calculated with the previous trading day's close on the last calendar day of each month if that day is not a trading day. S&P DJI publishes an index calculation calendar which is available in the indices section on <https://www.spglobal.com/spdji/en/> under Calendar for data subscribers. Index data and bond price information is also available from the main information vendors.

Bond and index analytical values are calculated each trading day using the daily closing prices. Closing index values and key statistics are published at the end of each business day in the indices section on <https://www.spglobal.com/spdji/en/> for data subscribers.

4.12 Data publication and access

The table below summarizes the publication of the Markit iBoxx USD Liquid High Yield 0-5 Index at <https://www.spglobal.com/spdji/en/> for registered users and on the FTP server.

In addition to the indices detailed in this methodology, other indices covered by this document may be available. For a list of available indices, please refer [here](#).

Table 3: Frequency, file type and access

Frequency	File Type	Access
Daily	Underlying files – Bond level	FTP Server
	Indices files – Index level	FTP Server / website / Bloomberg for index levels only
Daily from the 6th calendar day of the month (or the next index publication day if the 6th calendar day falls on a non-business day)	Forward Files	FTP Server
Monthly	End of Month Components	FTP Server / website
	XREF files	FTP Server

Below is a summary of the IDs for each publication channel:

Index Name	Version	ISIN	SEDOL	BBG	RIC
Markit iBoxx USD Liquid High Yield 0-5 Index	TRI	GB00BC5ZF088	BC5ZF08	IBXXSHY1	.IBXXSHY1
Markit iBoxx USD Liquid High Yield 0-5 Index	CPI	GB00BC5ZF641	BC5ZF64	IBXXSHY2	.IBXXSHY2

4.13 Annual index review

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

5 Index Governance

Index Committee

An S&P Dow Jones Indices Index Committee maintains the indices. All committee members are full-time professionals at S&P Dow Jones Indices. Meetings are held regularly. The Index Committee oversees the management of the indices, including determinations of intra-rebalancing changes, maintenance and inclusion policies, and other matters affecting the maintenance and calculation of the indices.

In fulfilling its responsibilities, the Index Committee has full and complete discretion to (i) amend, apply, or exempt the application of index rules and policies as circumstances may require and (ii) add, remove, or by-pass any bond in determining the composition of an index.

The Index Committee may rely on any information or documentation submitted to it or gathered by it that the Index Committee believes to be accurate. The Index Committee reserves the right to reinterpret publicly available information and to make changes to the indices based on a new interpretation of that information at its sole discretion. All Index Committee discussions are confidential.

The Index Committee is separate from and independent of other analytical groups at S&P Global. In particular, the Index Committee has no access to or influence on decisions by S&P Global Ratings analysts.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

For more information on index governance policies, please refer [here](#).

6 Changes to the Markit iBoxx USD Liquid High Yield 0-5 Index

31-Mar-2025	Annual Index Review 2024 <ul style="list-style-type: none"> • Removal of the minimum run rule
01-Mar-2024	Annual Index Review 2023 <ul style="list-style-type: none"> • Inclusion of payment-in-kind (PIK) bonds • Differentiation of Non-Core-Financials senior debt between Senior Secured and Senior Unsecured bonds
30-Jun-2023	Annual Index Review 2022 <ul style="list-style-type: none"> • Introduction of 'Maturity extension' section • Index eligibility of bonds with extended workout dates • Creation of 'Renewable Energy Sector' within the 'Corporates' classification • Distressed Debt Exchanges – Rule Update
01-Jul-2022	Monthly forward start date updated from 10th calendar day to 6th calendar day
31-Mar-2022	Annual Index Review 2021 <ul style="list-style-type: none"> • Introduction of new market sector classification "Education" with market sub-sector classification "Academic & Educational Services"
31-Dec-2021	Cash re-investment reference rate changed to SOFR
01-Sep-2021	Monthly forward start date updated from 12th calendar day to 10th calendar day
01-Mar-2021	Governance and Regulatory Compliance section added
28-Feb-2021	Implementation of Annual Index Review 2020 <ul style="list-style-type: none"> • Removed Rating Stabilization Rule • Updated Insurance classification
31-Jul-2020	Implementation of Annual Index Review 2019 <ul style="list-style-type: none"> • Introduction of updated corporate classification schema • Implementation of updated Bank Tier Classification • Updates as part of the changes in definition and treatment of hybrid bonds
01-Feb-2015	Defaulted or Flat Trading bonds treatment added
01-Oct-2014	Index restatement, complaints sections added. Additional clarifications on bond eligibility, classification and corporate actions
31-Aug-2013	Launch of the Markit iBoxx USD Liquid High Yield 0-5 Index

7 Further information

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For client support please contact index_services@spglobal.com.

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A ESG Disclosures

EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY [1]		
1	Name of the benchmark administrator.	IHS Markit Benchmark Administration Limited (IMBA)
2	Underlying asset class of the ESG benchmark. [2]	N/A
3	Name of the S&P Dow Jones Indices benchmark or family of benchmarks.	iBoxx Benchmark Statement
4	Do any of the indices maintained by this methodology take into account ESG factors?	No
Appendix latest update:		May 2023
Appendix first publication:		May 2023

[1] The information contained in this Appendix is intended to meet the requirements of the European Union Commission Delegated Regulation (EU) 2020/1817 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the minimum content of the explanation of how environmental, social and governance factors are reflected in the benchmark methodology and the retained EU law in the UK (The Benchmarks (amendment and Transitional Provision) (EU Exit) Regulations 2019).

[2] The 'underlying assets' are defined in European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.

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Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Also, the treatment of corporate actions in back-tested performance may differ from treatment for live indices due to limitations in replicating index management decisions. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

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