

**1/3 iTraxx Europe
Crossover and 2/3
CDX.NA.HY USD
Hedged 1.5x
Leveraged Funded
Indices Methodology**

December 2025

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Index Overview

The 1/3 iTraxx Europe Crossover and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Indices aim to measure the performance of holding simultaneous long positions in iTraxx Crossover and CDX.NA.HY indices of 5Y tenors.

The indices assume a constant leverage of 1.5. This means that when the notional of the portfolio changes to the changes in the market value of the underlying indices or cash position, the portfolio rebalances to ensure that the exposure to the iTraxx Crossover and CDX.NA.HY indices is the leverage multiplied to the new notional. The index rebalances at the end of each business day.

A long position in the underlying indices represents a protection seller's position, where coupons are received on a quarterly basis on the IMM dates. Any coupon received by the protection seller are reinvested immediately into the respective underlying index on the day they are paid.

1/3 iTraxx Europe Crossover and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Euro Index.

The index replicates the behavior of a portfolio that sells protection on iTraxx Crossover 5Y and CDX.NA.HY 5Y indices and earns an ESTR rate based on daily accrual. The Index assigns a one-third weighting to the iTraxx Crossover 5Y contract and two-thirds weighting to the CDX.NA.HY 5Y contract. The daily USD returns from the CDX.NA.HY 5Y contract are converted to EUR at the daily spot rate.

1/3 iTraxx Europe Crossover EUR Hedged and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Index (GBP). The index replicates the behavior of a portfolio that sells protection on iTraxx Crossover 5Y and CDX.NA.HY 5Y indices and earns a SONIA rate based on daily accrual. The Index assigns a one-third weighting to the iTraxx Crossover 5Y contract and two-thirds weighting to the CDX.NA.HY 5Y contract. The daily USD returns from the CDX.NA.HY 5Y contract are converted to GBP at the daily spot rate. The daily EUR returns from the iTraxx Crossover 5Y contract are converted to GBP at the daily spot rate.

Index Construction

The indices take long positions in the following two underlying indices:

Underlying Indices	Type	Ticker	Currency	Business Calendar	Index Base Date	Index Base Level
iTraxx Europe Crossover 5Y Excess Return Index	Underlying	ERIXITXO	EUR	London	20 March 2007	100
CDX.NA.HY 5Y Excess Return Index	Underlying	ERINCDHY	USD	New York	27 March 2007	100

Index Calculation

1/3 iTraxx Europe Crossover and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Euro Index.

The final index level represents the current value of the portfolio, according to the following process:

$$IL(t) = IL(t - 1) * (1 + r(t))$$

where:

$$r(t) = r_{cash}(t) + 1.5 * \left(\frac{1}{3} * r_{xo}(t) + \frac{2}{3} * r_{CDXHY}(t) * \frac{Spot_{USDGBP}(t)}{Spot_{USDGBP}(t-1)} \right)$$

and:

$$r_{xo}(t) = \frac{IL_{xo}(t)}{IL_{xo}(t-1)} - 1$$

$$r_{CDXHY}(t) = \frac{IL_{CDXHY}(t)}{IL_{CDXHY}(t-1)} - 1$$

$$r_{cash}(t) = EONIA(t-1) * f(t-1, t)$$

1/3 iTraxx Europe Crossover and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Index

(GBP). The final index level represents the current value of the portfolio, according to the following process¹:

$$IL(t) = IL(t - 1) * (1 + r(t))$$

where:

$$r(t) = r_{cash} + 1.5 * \left(\frac{1}{3} * r_{xo}(t) * \frac{Spot_{EURGBP}(t)}{Spot_{EURGBP}(t-1)} + \frac{2}{3} * r_{CDXHY}(t) * \frac{Spot_{USDGBP}(t)}{Spot_{USDGBP}(t-1)} \right)$$

and:

$$r_{xo}(t) = \frac{IL_{xo}(t)}{IL_{xo}(t-1)} - 1$$

$$r_{CDXHY}(t) = \frac{IL_{CDXHY}(t)}{IL_{CDXHY}(t-1)} - 1$$

1. For SONIA history prior to June 2021, the index used GBPONFSR=. Beginning June 2021, the index uses SONIAOSR=. For EONIA history prior to June 2021, the index used EONIA. Beginning June 2021, the index uses EUROSTR=.

$$r_{cash}(t) = SONIA(t-1) * f(t-1, t)$$

Inputs

Credit Index Prices

The underlying index levels are calculated each business day using the S&P Global CDS Index prices which in turn are used to derive the Credit Index mark-to-market values. S&P Global CDS Index prices as published by the S&P Market Intelligence Pricing Service are used. The following Pricing Snaps are used to calculate the respective index levels:

Index	Snap
iTraxx Europe Crossover 5Y Excess Return Index	London 17:00 hrs
CDX.NA.HY 5Y Excess Return Index	New York 17:00 hrs

FX Rates

The index uses the exchange rates at the following snaps as published by WMR:

	FX Rate	Snap
1/3 iTraxx Europe Crossover and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Euro Index	USDEUR spot rates	London 16:00 hrs
1/3 iTraxx Europe Crossover EUR Hedged and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Index (GBP)	USDGBP spot rates	London 16:00 hrs
	EURGBP spot rates	London 16:00 hrs

Index Administration

Data publication and access

The table below summarizes the publication of the indices at <https://www.spglobal.com/spdji/en/> for registered users and on the FTP server.

Index Name	Ticker	Currency	Business Calendar	Index Base Date	Index Base Level
1/3 iTraxx Europe Crossover and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Euro Index	XOHY15EU	EUR	London and New York	March 27, 2007	100
1/3 iTraxx Europe Crossover EUR Hedged and 2/3 CDX.NA.HY USD Hedged 1.5x Leveraged Funded Index (GBP)	XOHY15GB	GBP	London and New York	March 27, 2007	100

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: Frequency, File type and Access

Frequency	File Type	Access
Daily	Indices files – Index level	FTP Server / website / BBG for index levels only

Closing Index Values are published at the end of each business day, available at www.spglobal.com/spdji/. The daily index levels are also made available.

For S&P DJI to be able to publish the daily iTraxx/CDX Benchmark Indices index levels, the relevant iTraxx/CDX prices/spreads must be published. In periods of market stress or disruption, as well as in illiquid or fragmented markets preventing the publication of a daily S&P DJI iTraxx/CDX price, S&P DJI publishes a statement outlining the course of action due to the disruption [here](#).

In the event of a major structural change within the CDS market impacting the iTraxx/CDX Benchmark Indices calculation, S&P DJI will confer with all relevant stakeholders and publish the outcome of any material change as well as any decisions taken at S&P DJI's discretion that have led to the resulting methodology change.

Index restatement

Index restatement follows the policy described [here](#).

Index review

Index methodology reviews for the Index outlined within this guide are performed on a periodic basis. In order to ensure the independence and the objectivity of the Index, the index rules and their enforcement

will be governed by the **CDS Index Committee**. The purpose of this committee is to conduct a timely review of the index methodology and any changes thereto. As part of the review process, the committee will address any suggested changes brought to it by index stakeholders. In the event that following an index review an amendment is to be made, a notice of the proposed change will be published [here](#). Following the publication of the impending index rule change, a consultation period is put in place up until the second Wednesday following the notice having been made public or the business day thereafter if the Wednesday is not an index business day. Provided that during the consultation period no concerns raised by index stakeholders are seen to be material by the CDS Index Committee, the rule change will be implemented for the index close on the index business day following the final day of the consultation period.

Annotations

$Daycount(t - 1, t)$	Number of days between $(t - 1)$ and t
$EONIA(t)$	EONIA rate as of date t
$SONIA(t)$	SONIA rate as of date t
$f(t - 1, t)$	Annual day count fraction from date $t - 1$ to t
$IL(t)$	Final index level
$IL_{CDXHY}(t)$	Index level of CDX.NA.HY 5Y Excess Return Index on date t
$IL_{XO}(t)$	Index level of iTraxx Europe Crossover 5Y Excess Return Index on date t
$r(t)$	Daily index return
$rcash(t)$	Return on cash accrual on date t
$r_{XO}(t)$	Daily index return of iTraxx Europe Crossover 5Y Excess Return Index on date t
$Spot(t)$	USDEUR spot rate on date t
$Spot_{USDGBP}(t)$	USDGBP spot rate on date t
$Spot_{EURGBP}(t)$	EURGBP spot rate on date t
t	Represents a business day

Further Information

Client support

For client support please contact index_services@spglobal.com.

Formal complaints

Formal complaints should be emailed to spdji_compliance@spglobal.com.

Please note: spdji_compliance@spglobal.com should only be used to log formal complaints.

General index inquiries

For general index inquiries, please contact index_services@spglobal.com.