



# BIST NON-MARKET CAP WEIGHTED STOCK INDICES METHODOLOGY

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## 1. INTRODUCTION

### 1.1. Purpose

BIST Non-Market Cap Weighted Stock Indices have been created to measure the return performances of group of stocks according to index theme where weights determined at the beginning of the index period.

~~Borsa İstanbul has full control over all indices calculated within the scope of this Methodology and is responsible for all processes related to the creation, calculation and publication of these indices.~~

Although in Market Cap Weighted Stock Indices, weight of a stock may change other than price fluctuations like corporate actions or free float ratio changes during Index Period.

On the other hand, in Non-Market Cap Weighted Stock Indices, weight of a stock may change only as a result of price fluctuations during index period. If free float market value of a stock changes during Index Period for a reason except for price fluctuations, by re-calculating weighting factor, given stock's weighting will be equalized to last session close weighting before this change. As a result, weighting of stocks in index is not affected from other factors (for example capital decrease/increase, merger/spin-off etc.) except for price and weighting theme.

### 1.2. Administration

~~Borsa İstanbul is the owner of the intellectual property rights of all indices calculated under this~~ ~~has full control over all indices calculated within the scope of this Methodology and,~~ as the administrator with full control, is responsible for all processes related to the creation, calculation and publication of these indices and their compliance with the "Principles for Financial Benchmarks" of the International Organization of Securities Commissions (IOSCO). Information on the compliance of the Financial Benchmarks calculated by Borsa İstanbul with the principles of IOSCO can be accessed from the Borsa İstanbul corporate website, Indices - Compliance with IOSCO Principles page. Borsa İstanbul Index Directorate carries out the works and operations to ensure the continuity of BIST Non-Market Cap Weighted Stock Indices.

Lists of constituent stocks in the indices are determined and used in the index calculations by Borsa İstanbul according to the Methodology. If the securities to be included in the indices cannot be determined due to lack of data or in case of unusual market conditions, the indices continue to be calculated with the current list. ~~is responsible for all processes related to the creation, calculation and publication of these indices.~~

### 1.3. Financial Benchmarks Committee

Financial Benchmarks Committee (Committee) is formed and appointed by Borsa İstanbul for evaluating and implementing relevant opinions and proposals on all and any issues that may be included in the scope of control and oversight of Financial Benchmarks, in order to perform the control and oversight functions described in Article 8 "Control Framework" and Article 9 "Internal Oversight" of Borsa İstanbul A.Ş. Directive on Financial Benchmark Compliant with IOSCO Principles.

The Committee provides governance and internal oversight in regarding all aspects of Financial Benchmark calculation process. Duties and responsibilities of the Committee are basically comprised of determination an announcement of Financial Benchmarks, and creation of Financial Benchmarks, and determination of Methodologies, and calculation of Financial Benchmarks, and publishing and dissemination of Financial Benchmarks, and conduct of related operations for reporting and submission to the Decision-making Body referred to in Article 4 of Borsa İstanbul A.Ş. Financial Benchmarks Management Procedure. The Committee gathers at least once every four months. Duties, responsibilities and the membership structure of the Committee are stated in Article 5 of Borsa İstanbul A.Ş. Financial Benchmarks Management Procedure.

### 1.4. Changes to the Index Methodology

Borsa İstanbul has implemented a governance and oversight structure with committees and policies to review the Methodology and conduct consultations with Stakeholders as needed.

The Methodology is regularly reviewed (at least once a year) by The Committee to ensure that it continues to best reflect the change that each index aims to measure.

Needs for revision in the Methodology may arise as a result of change requests from Subscribers or Stakeholders and periodic or non-periodic reviews within the scope of the oversight of the Financial Benchmarks.

All changes that are decided to be made in the Methodology are announced to the public on Borsa İstanbul corporate website, Indices - Methodologies and Changes page, accompanied by the relevant explanations and rationale for the revision, before being implemented.

All practices to be made on matters not regulated within the scope of this Methodology is determined and announced by the Borsa İstanbul Management with Financial Benchmarks Committee's advice.

## **2. ABBREVIATIONS, DEFINITIONS AND GENERAL RULES**

### **2.1. Abbreviations**

Included in this Methodology;

- Borsa, Borsa İstanbul: Borsa İstanbul A.Ş.,
  - Committee: Financial Benchmarks Committee,
  - Methodology: BIST Non-Market Cap Weighted Stock Indices Methodology,
- expresses.

### **~~2.1.~~2.2. Number of Shares**

It refers to the number of shares calculated in accordance with Article 5.1.1 titled "Trading Unit (Lot)" of Borsa İstanbul A.Ş. Equity Market Procedure, using the company's issued or paid-in capitals (including the temporary shares which are created in the Central Registry Agency (CRA) during capital increases under the paid-in capital system until the capital is registered and announced) reach within the scope of the announcements made by Borsa İstanbul on the Public Disclosure Platform (PDP - [www.kap.org.tr](http://www.kap.org.tr)) regarding corporate actions of companies.

The same Number of Shares as BIST Market Cap Weighted Stock Indices are used in the calculation of indices.

### **~~2.2.~~2.3. Market Value**

Market value is calculated by multiplying Number of Shares by the stock price.

### **~~2.3.~~2.4. Free Float Ratio (FFR)**

Free Float Ratio has been defined by the Capital Markets Board (CMB) as a concept showing free float rate of the stocks traded on Borsa İstanbul equity markets, and is calculated and announced by CRA.

The same FFRs as BIST Market Cap Weighted Stock Indices are used in the calculation of indices.

### **~~2.4.~~2.5. Weighting Factor**

This is a number used to adjust the weight of a stock in the index. In the index calculation, free float market values are taken into account only after being multiplied by this weighting factor.

### **~~2.5.~~2.6. Weighted FFMV**

Weighted FFMV (Weighted Free Float Market Value) is calculated by multiplying the market value by the FFR and the Weighting Factor.

### **~~2.6.~~2.7. Exchange Rate**

Refers to the Forex Buying Rates announced by the Central Bank of Republic of Turkey.

### **~~2.7.~~2.8. Versions of the Indices**

Indices are calculated only in return version in a way that reflects cash dividend return, in currencies TL, USD and Euro.

In Non-Market Cap Weighted Indices, on the assumption that the dividend paid shall be reinvested to the same stock, index divisor is not adjusted. However, adjustment is made on the weighting factor of the related stock in order to keep it equal to weights of the constituents at the end of last session.

### **2.8.2.9. Index Period**

Same as Market Cap Weighted versions, the relevant Index Periods are shown in the table below.

Index	Index Period
BIST 30 Equal Weighted Return	January - March April - June July-September October-December
BIST Participation 30 Equal Weighted Return	May-September October-April

### **2.9.2.10. Calculation and Dissemination Frequency**

Indices are calculated when Borsa İstanbul Stock Market is open.

The calculation and dissemination frequency of the indices are shown in the table below.

Index	Version	Calculation and Dissemination Frequency
BIST 30 Equal Weighted	TL - Return	Once in 10 seconds
BIST Participation 30 Equal Weighted	US\$ - Return Euro - Return	Once at the end of session

### **2.10.2.11. Data Precision**

Data	Data Precision
Index Values	Rounded to 2 decimal places
Index Divisors	Rounded to 8 decimal places
Free Float Ratio (%)	If Free Float Ratio < 1% Rounded to 2 decimal places, If Free Float Ratio >= 1% Rounded to integer numbers
Weighting Factor	Rounded to 12 decimal places

### **2.11.2.12. Capping Method**

In Non-Market Cap Weighted Indices, weights of constituents are determined in accordance with the weighting theme of the index at the beginning of each Index Period as described in Article 5.2.

The weights determined at the beginning of each Index Period can only change due to the movements in prices. Actions other than price movements, like changes in FFR or corporate actions such as capital increase/decrease, dividend payments, and mergers do not change the weights of constituents in the index.

The effects of changes in FFR or corporate actions are eliminated by modifying the Weighting Factors of the constituents. By this modification weights of the constituents at the end of last session remain equal to effective date of the corporate actions or free float changes.

## **3. CALCULATED INDICES; STARTING DATES AND VALUES**

### **3.1. BIST 30 Equal Weighted Return Index**

The Index is created by equalizing the weightings of BIST 30 Index constituents at the beginning of the Index Period.

### **3.2. BIST Participation 30 Equal Weighted Return Index**

The Index is created by equalizing the weightings of BIST Participation 30 Index constituents at the beginning of the Index Period.

### 3.3. Starting Dates and Values of Indices

Starting values and dates of BIST Non-Market Cap Weighted Stock Indices can be found on the Borsa Istanbul website - BIST Stock Indices page (<https://www.borsaistanbul.com/files/bist-endeks-kodlari-ve-baslangic-degerleri.xlsx>).

## 4. CALCULATION FORMULA

Indices are calculated in accordance with the index weighting theme referred to in Article 3.

$$E_t = \frac{\sum_{i=1}^n (F_{it} / D_t) * N_{it} * H_{it} * K_{it}}{B_t}$$

$E_t$  = Value of the index at time t

$N$  = Number of constituent stocks

$F_{it}$  = Price of the stock "i" at time t

$N_{it}$  = Total Number of Shares of stock "i" at time t

$H_{it}$  = Free float ratio used in index calculation of the stock "i" at time t

$K_{it}$  = Weighting factor of the stock "i" at time t

$D_t$  = Exchange rate on day t

$B_t$  = Divisor of the index at time t

## 5. NON-PERIODIC CHANGES ON CONSTITUENT STOCKS

5.1. Stocks, excluded from BIST 30 Index during Index Period are also excluded from the BIST 30 Equal Weighted Return index effective from the date of exclusion. Excluded stocks are replaced with included ones.

5.2. Stocks, excluded from BIST Participation 30 Index during Index Period are also excluded from the BIST Participation 30 Equal Weighted Return index effective from the date of exclusion. Excluded stocks are replaced with included ones.

## 6. ADJUSTMENT IN THE INDICES

### 6.1. Adjustment at the beginning of Index Period

The weights of the stocks in the index at the beginning of the Index Period are determined as explained in Article 3. After all index operations valid for the first trading day of the Index Period, such as corporate actions, changes in FFR and changes in scope of the index are fulfilled; Weighing Factors are calculated to give the final weights determined for each share.

Finally, the new divisor value for the index is calculated with the following formula.

$$B_{t+1} = (1 + \frac{\Delta PD}{PD_t}) * B_t$$

$B_{t+1}$  = Adjusted divisor to be used on day t+1

$\Delta PD$  = Change in the total Weighted FFMV of the stocks due to the events described below

$PD_t$  = Total Weighted FFMV of the stocks on day "t"

$B_t$  = Divisor on day t



## 6.2. Adjustment during the Index Period

- a) Adjustment during Index Period due to constituent changes.

After all index transactions like corporate actions, FFR changes effective from the first trading day, weightings of shares in the index are re-calculated in accordance with the Article 6.1.

- b) Adjustment during Index Period due to company covered by the Index is taken over by another company not covered by the Index and the resulting company is included in the Index

With using "Number of Shares in Index Portfolio" before merger and "share exchange rate" about merger of the acquired company "The number of Shares of the Resulting Company in Index Portfolio" is calculated. And this value is divided to floating number of shares of the resulting company in order to calculate the new Weighting Factor.

The divisor value of the index is not changed.

$$K_{t+1} = \frac{\text{Number of Shares in Index Portfolio}_t * \text{Share Exchange Rate}}{N_{t+1} * H_{t+1}}$$

$N_{t+1}$  = Total number of shares of stock at day t+1

$H_{t+1}$  = Free float ratio used in index calculation of the stock at day t+1

$K_{t+1}$  = Weighting factor of the stock at day t+1

Number of Shares in Index Portfolio<sub>t</sub> =  $N_t * H_t * K_t$

$N_t$  = Total number of shares of stock at day t

$H_t$  = Free float ratio used in index calculation of the stock at day t

$K_t$  = Weighting factor of the stock at day t

- c) Adjustment during Index Period due to free float changes and corporate actions which does not require price change

The new Weighting Factor is calculated by dividing pre-adjustment "The Number of Shares in Index Portfolio" of the company to post-adjustment floating number of the share of the company.

The divisor value of the index is not changed.

$$K_{it+1} = \frac{\text{The Number of Shares in the Index Portfolio}}{N_{it+1} * H_{it+1}}$$

$N_{it}$  = Total number of shares of stock at day t

$H_{it}$  = Free float ratio used in index calculation of the stock at day t

$K_{it}$  = Weighting factor of the stock at day t

Number of Shares in Index Portfolio<sub>t</sub> =  $N_t * H_t * K_t$

- d) Adjustment during Index Period due to corporate actions which require price change

In cases of corporate actions which led to a change in the price of the share covered by the index, the adjustment is made via changing the Weighting Factor as follows.

$$K_{t+1} = \frac{\text{Weighted FFMV}_t}{\text{FFMV}_t} = \frac{N_t * H_t * F_t * K_t}{N_{t+1} * H_{t+1} * F_{t+1}}$$



- $F_t$  = Price of the stock at day t  
 $N_t$  = Total number of shares of stock at day t  
 $H_t$  = Free float ratio used in index calculation of the stock at day t  
 $K_t$  = Weighting factor of the stock at day t

### 6.3. Events which require adjustment in the indices and the timing of the adjustments

Under such circumstances which require changes on constituent stocks of the indices based on the public disclosures of the companies, the company should have delivered the statement to the Public Disclosure Platform (PDP) until 16:30 (until 12:00 on half days) on the business day that precedes the realization date. Otherwise, the relevant change will be made so that it will be effective on the second business day that succeeds the delivery of the statement to PDP.

#### 6.3.1. Cash dividend payment

The adjustment is made in accordance with Article 6.2.d, on the assumption that the dividend paid shall be reinvested to the same stock to be effective on the ex-dividend date, taking into account the net dividend amount.

#### 6.3.2. Capital increase in cash through rights offering

- a) If the last trade price and/or the adjusted price (in case of dividend and bonus issues) of the stock are equal to or higher than the subscription price;
- The adjustment is made to be effective on the rights issue date, in accordance with Article 6.2.d.
  - But if the capital does not reach to the target capital, due to the unsold shares; re-adjustment is made to be effective on the fourth business day following the notification on PDP that the unsold stocks are cancelled, in accordance with Article 6.2.c.
- b) If the last trade price and/or the adjusted price (in case of dividend and bonus issues) of the stock is lower than the subscription price;

The adjustment regarding the amount of rights issue is made to be effective on the fourth business day that succeeds the day when the completion of the capital increase process is notified to PDP, after the exercise of the rights issue and the sale of the remaining shares on the Primary Market, in accordance with Article 6.2.c.

#### 6.3.3. Capital increase in cash without rights offering

- a) If the shares representing the capital increase are sold via private placement, adjustment is made to be effective on the business day that succeeds the ending date of the sales transaction,
- b) If the shares representing the capital increase are sold via public offering, adjustment is made to be effective on the fourth business day that succeeds the ending date of the sales transaction,

in accordance with Article 6.2.c.

#### 6.3.4. Change in FFR

The free float ratios that are announced by CRA for the last business day of the week are analyzed and the changes in ratios except those occur during the capital increase process are taken into account.

If the FFR;

- is equal or lower than 50% and there is a change at the rate equal to 5 points or higher;
- is higher than 50% and there is a change at the rate equal to 10 points or higher;

adjustment is made to be effective on the third business day of the following week, in accordance with Article 6.2.c. FFR are not adjusted for the weeks consisting of two or less business days. In the event that the FFR is adjusted in cases that require corrections in the indices, the FFR is adjusted taking into account the latest ratios announced by CRA.

If shares held by current shareholders are offered to the public, FFR are adjusted to be effective from the fourth business day succeeding the end date of the transaction, in accordance with Article 6.2.c.

If deemed necessary, changes on the ratios can be made with the decision of the Borsa İstanbul Management.

#### **6.3.5. Decrease of capital by acquiring and then canceling the company's own shares**

Adjustment is made to be effective on the on the capital decrease date, in accordance with Article 6.2.c.

#### **6.3.6. Merger of two or more companies covered by the index**

Adjustment is made to be effective from the date of the distribution of the stocks issued as a result of the merger or acquisition, in accordance with Article 6.2.a.

#### **6.3.7. A company covered by the index takes over one or more companies not covered by the index**

Adjustment is made to be effective from the date of the distribution of the stocks issued as a result of the merger or acquisition, in accordance with Article 6.2.c.

#### **6.3.8. A company covered by the index is taken over by another company not covered by the index and the resulting company is included in the index**

Adjustment is made to be effective from the date of the distribution of the stocks issued as a result of the merger or acquisition, in accordance with Article 6.2.b.

#### **6.3.9. A company covered by the index is taken over by another company not covered by the index and the resulting company is not included in the index**

Adjustment is made to be effective from the date of the distribution of the stocks issued as a result of the merger or acquisition, in accordance with Article 6.2.a.

#### **6.3.10. Company spin-off (demerger)**

Adjustment is made to be effective on the date of the distribution of shares issued due to the spin-off or demerger, in accordance with Article 6.2.d.

#### **6.3.11. The sale of shares held ready to sell in public offerings**

Adjustment is made to be effective on the fourth business day of the month succeeding the one when the sale has been made considering the delivery of the statement related to the sale to PDP, in accordance with Article 6.2.c.

#### **6.3.12. Share transformation of companies with multiple groups of stock altering the number of shares in different groups**

Adjustment is made effective on the first business day that succeeds the delivery of the statement concerning the share transformation to PDP, in accordance with Article 6.2.c.

### **6.4. Capital increases and/or dividend payments of the traded companies realized in a currency other than Turkish Lira**

If capital increases and/or dividend payments of the traded companies are realized in a currency other than Turkish Lira, Turkish Lira equivalents, calculated by using exchange rates of the last business day before ex-date, are used in index adjustments.

## **7. DATA USED IN CALCULATIONS AND DATA HIERARCHY**

### **7.1. Prices**

- a) Latest transaction prices recorded in the BIST Equity Market are used in the index calculations.
- b) Theoretical/reference prices calculated for the stocks due to corporate actions continue to be used until the share is traded.

- c) Stocks are included in the scope of the indices by taking into account the base/reference prices announced by Borsa İstanbul.
- d) If the stock is not traded or the prices of the stocks included in the indices cannot be reached due to the existence of unusual market conditions, the indices continue to be calculated with the latest prices used.

## **7.2. Free Float Ratios**

- a) The same FFRs as BIST Market Cap Weighted Stock Indices are used in the calculation of indices.
- b) If the FFRs of the stocks included in the indices cannot be accessed due to lack of data or in case of unusual market conditions, the indices continue to be calculated with the current FFRs of the stocks.

## **7.3. Number of Shares**

- a) The same Number of Shares as BIST Market Cap Weighted Stock Indices are used in the calculation of indices.
- b) If the corporate actions cannot be implemented in case of unusual market conditions, the indices continue to be calculated with the last known Number of Shares.

## **7.4. Lists of Constituent Stocks**

- a) Indices are calculated with the same lists as BIST Market Cap Weighted Stock Indices.
- b) If the stocks to be included in the indices cannot be determined due to lack of data or in case of unusual market conditions, the indices continue to be calculated with the current list.

## **8. MONITORING AND ADMINISTRATION OF INDICES**

- 8.1. Index Department is responsible for monitoring and administration of Indices.
- 8.2. Borsa İstanbul Management is authorized with regard to issues that are not stipulated by the Methodology.

## **9. CORRECTION IN INDEX VALUES**

- 9.1. No retroactive correction is made in the index values calculated and published in real time.
- 9.2. Retroactive correction in the index values calculated and published at the end of day can be permitted only by the decision of the Borsa İstanbul Management.

## **10. UPDATE FREQUENCY**

This Methodology is reviewed at least once a year and updated as needed.

## **10.11. EFFECTIVE DATE**

This Methodology takes effect on ~~10/11/2022~~05/09/2025. The current version of the Methodology should be confirmed on the Borsa İstanbul corporate website ([www.borsaistanbul.com](http://www.borsaistanbul.com)), Indices - Methodologies and Changes page.

