

# INDEX GUIDE

MarketVector™ Brazil Small-Cap Value (BRL) Index

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## REGULATION AND DISCLOSURES

# Regulation and Disclosures

## Regulation

In accordance with Art. 13 No. 1 (a) of Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 (the “Benchmark Regulation”), this document provides the rules for establishing, calculating and maintaining the MarketVector™ Equity Index family, which is comprised of MVIS®, MarketVector™ and BlueStar® Indexes (together the “Indexes”).

MarketVector Indexes GmbH (the “Index Owner”) makes no warranties or representations as to the accuracy and/or completeness of the Indexes and does not guarantee the results obtained by persons using the Indexes in connection with trading funds or securities. The Index Owner makes no representations regarding the advisability of investing in any fund or security.

The Index Owner reserves the right to update the rules in this Index Guide at any time. The Index Owner also reserves the right to make, in exceptional cases or in temporary situations, exceptions to the rules in this Index Guide. The Indexes are the property of MarketVector Indexes GmbH. The Index Owner has selected an index calculator to calculate the Indexes.

MVIS® and BlueStar® are registered trademarks of Van Eck Associates Corporation and therefore protected globally against unlawful usage. The use of Indexes from the MarketVector Index family in connection with any financial products or for benchmarking purposes requires a license. Please contact MarketVector Indexes GmbH for more details.

## Approval of Index Methodologies

The Index Owner has established the Indexes and their individual methodology covered in this Index Guide. A detailed written “Procedure for Index Development” describes the steps and approvals required to develop, document and approve an Index and its methodology. The intention of the Procedure for Index Development is to ensure that the methodology of an Index meets the requirements of Art. 12 of the Benchmark Regulation and is approved and implemented according to a robust and reliable process. The methodology for each index and its methodology covered in this Index Guide has been analysed by the Index Owner’s Index Operations department in order to ensure that it is robust and reliable, has clear rules on use of discretion, allows sustainable validation (based on reasonable back testing) and is traceable and verifiable. Furthermore, the size, liquidity and transparency of the underlying market for each methodology has been tested and particular circumstances for each relevant market have been taken into account.

Each index methodology and the related detailed analysis was presented by the Index Operations Department to the Independent Oversight Function for its approval. Based on the aforementioned approval process and its documentation each Index Methodology was presented to the Management Board (Geschäftsführer) of the Index Owner for final approval.

## Review of this Index Guide

According to Art. 13 No. 1 (b) of the Benchmark Regulation, the Index Owner reviews this Index Guide on an annual basis and immediately in case of special circumstances that require a review. The review takes place in meetings attended by the Independent Oversight Function and the Management Board of the Index Owner. If changes to this Index Guide are considered necessary, the process described in Section 5.5 applies.

## 1 INDEX DESCRIPTION

# 1 Index Description

The MarketVector™ Brazil Small-Cap Value (BRL) Index is a country index tracking the performance of small-cap companies involved in the Brazilian economy.

## 1.1 Index Universe

### 1.1.1 Pure-Play/Thematic Screening

The components of this index are based on the composition of the MVIS® Brazil Small-Cap Index (MVBRF). Therefore companies must be considered a local or non-local Brazilian company by meeting one of the following criteria:

- Local companies are incorporated in Brazil.
- Non-local companies are companies incorporated outside of Brazil whose revenues/related assets in Brazil are at least 50% (25% for current components).

### 1.1.2 Exclusion Criteria

The index universe will include only common securities and securities with similar characteristics from financial markets that are freely investable for foreign investors and that provide real-time and historical component and currency pricing, excluding:

- Limited Partnerships (LPs),
- Cannabis/marijuana companies,
- FII's (Fundos de Investimento Imobiliário) in Brazil.

Only securities that have a full market capitalization exceeding 50.0 mn USD are included in the index universe.

### 1.1.3 Exchange Eligibility

Securities must be listed on a Brazilian exchange to qualify for the index universe.

## 1 INDEX DESCRIPTION

### 1.2 Investable Universe

#### 1.2.1 Market Capitalization and Liquidity Criteria

Securities that fulfill the Collateral Acceptance Criteria by B3 must meet the following size and liquidity requirements to be included in the investable universe. If composite country volume data exists, it will be used to identify the investable universe.

All of the following applies for securities that are currently not included in either the MVIS® Brazil Small-Cap or the MarketVector™ Brazil Small-Cap Value Index:

- free-float of at least 10%,
- full market capitalization exceeding 150.00 million USD,
- a three-month average daily trading volume of at least 1.00 million USD at the current quarter and at the previous two quarters, and
- at least 0.25 million shares traded per month over the last six months at the current quarter and at the previous two quarters.

All of the following applies for securities that are currently included in either the MVIS® Brazil Small-Cap or the MarketVector™ Brazil Small-Cap Value Index:

- free-float of at least 5%,
- a full market capitalization exceeding 75.00 million USD, and
- a three-month average daily trading volume of at least 0.20 million USD in at least two of the latest three quarters (current quarter and at the previous two quarters).

In addition, at least one of the following applies for securities already in the index:

- a three-month average daily trading volume of at least 0.60 million USD at the current quarter or at one of the previous two quarters, or
- at least 0.20 million shares traded per month over the last six months at the current quarter or at one of the previous two quarters.

#### 1.2.2 Initial Public Offerings, Special Purpose Acquisition Companies, and Spin-Offs

Modified investability rules are applied for recent Initial Public Offerings (IPOs), spin-offs and post-merger/acquisition Special Purpose Acquisition Companies (SPACs). Such companies qualify for fast-track addition to the investable universe once; either at the next regularly scheduled review if it has been trading since at least the last trading day of the month two months prior to the review month or else at the following regularly scheduled review. In order to be added to the index the IPO security has to meet all of the following size and liquidity requirements:

- the IPO must have a full market capitalization exceeding 150.00 million USD,
- the IPO must have a free-float factor of at least 10%,
- the IPO must have an average daily trading volume of at least 1.00 million USD, and
- the IPO must have traded at least 0.25 million shares per month (or per 22 days).

This rule is applicable for newly spun-off companies and post-merger/acquisition SPACs (using the merger/acquisition date like an IPO date) as well.

## 1 INDEX DESCRIPTION

### 1.3 Eligible Universe

#### 1.3.1 Share Class

One share class of each company in the investable universe is included in the eligible universe. In case more than one share class fulfills the above specified market capitalization and liquidity rules, only the largest share class by free-float market capitalization qualifies for the eligible universe. In exceptional cases (e.g. significantly higher liquidity), the Index Owner can decide for a different share class.

In case the free-float market capitalization of a currently not included share class of an index component

- exceeds the free-float market capitalization of the currently selected share class by at least 25%, and
- fulfills all market capitalization and liquidity eligibility criteria for non-components

the currently selected share class will be replaced by the larger one.

In exceptional cases (e.g. significantly higher liquidity), the Index Owner can decide to keep the current share class instead.

#### 1.3.2 Pricing Source

For each company in the investable universe one Brazilian pricing source qualifies for the eligible universe.

Once a company has qualified for the investable universe, only the most liquid single exchange price source within the country qualifies for the eligible universe.

In exceptional cases, the Index Owner can assign alternative pricing sources.

## 2 INDEX REVIEW

## 2 Index Review

### 2.1 Review Schedule

Components of the index are reconstituted and rebalanced on a semi-annual basis in March and September and during reviews in June and December, new float factors and shares are applied, but an adjustment factor will account for a constant component weight and divisor at implementation according to the following schedule:

1. The eligible universe and component selection is determined based on the closing data on the last business day in February and August. If a security does not trade on the last business day in February or August, the last available price for this security will be used.
2. Component weights are determined based on closing data as of the Wednesday prior to the second Friday of March and September. If a security does not trade on the Wednesday prior to the second Friday of March and September, the last available closing data for this security will be used.
3. The underlying review and rebalance data (i.e. weights, shares outstanding, free-float factors, and new weighting cap factors) is announced on the second Friday of March and September.
4. Changes will be implemented and based on the closing prices as of the third Friday of March, June, September, and December. If the third Friday is not a business day, the review will take place on the last business day before the third Friday. If a security does not trade on the third Friday of March, June, September, and December, then the last available price for this security will be used. Changes become effective on the next index dissemination day.

### 2.2 Selection Procedure

Upon an index reconstitution, securities are selected to the index based on the following procedure:

- Establish the selection universe:
  1. All securities selected to the MVIS® Brazil Small-Cap Index will qualify for selection to the MarketVector™ Brazil Small-Cap Value Index.
  2. When possible, non-Brazil-listed securities that are selected to the MVIS® Brazil Small-Cap Index will be replaced by the largest Brazil-listed share line, if one exists, of the same security that meets the investability criteria.
  3. All remaining non-Brazil-listed securities selected to the MVIS® Brazil Small-Cap Index are then removed.
- Assign each member of the selection universe an overall value score:
  1. Sales:Price, Net Income:Price, and Book Value:Price ratios are collected. The calculation of Net Income:Price ratios use earnings before extraordinary items, if available.
    - Trailing twelve months fundamental data is used. This data is based on the four most recent quarterly filings as of the 15th of the month prior to a review.
    - If a security does not provide quarterly reports, or quarterly data is not available, annual data is used based on the most recent annual filing as of the 15th of the month prior to a review.
    - If, for any reason, annual data is not available, or the ratio is negative, the ratio is set to 0.
  2. Each ratio is standardized and increased such that the minimum ratio value is 1.

## 2 INDEX REVIEW

- Standardized ratios for each security are found by subtracting the average ratio of all index components and dividing by the standard deviation of the ratio of all index components.
  - If the standardized ratio for any security is less/greater than  $-3/+3$  the standardized ratio for that security will be set to  $-3/+3$ .
  - Following this step, positive standardized ratios are found by adding 4 to the number found in the previous step.
3. The positive standardized ratios for each security are averaged to find an overall value score for each component.
- Select index components
    - Members of the selection universe are sorted by overall value score in descending order.
    - Securities covering the top 67% of the selection universe, by number of members of the selection universe, are automatically selected to the index. For example, if there are 100 members of the selection universe, the 67 securities with the highest overall value scores will be selected. If more than one security has the same overall value score at the 67% mark, the security with the higher float-adjusted market capitalisation will be selected.
    - In addition current index components at or within the top 75% of the selection universe will also be selected to the index. If more than one security has the same value score at the 75% mark, all securities with that overall value score will be selected.

### 2.3 Weighting Scheme

Upon an index rebalance, companies selected to the index will be weighted according to a Factor-based weighting strategy as follows:

- The maximum security weight is the security's three-month average daily trading volume in USD divided by 20.00 million.
- Each components's overall value score (calculated in section 2.2) is raised to the third power.
- Components are weighted based in proportion to the overall value score raised to the third power.
- If a security's weight exceeds the maximum weight, the weight will be reduced to the maximum weight and the excess weight shall be redistributed among uncapped components proportionally.

The nominal value used in the liquidity overlay may be adjusted downward to allow the aggregate weight of all index components to equal to 100% while satisfying all other capping scheme constraints.



### 3 INDEX DISSEMINATION AND IDENTIFIERS

## 3 Index Dissemination and Identifiers

This index is calculated on weekdays between 01:00 and 22:40 (CET) and the index values are disseminated to data vendors every 15 seconds on days when the Brazil Stock Market is open for trading.

The index is disseminated in BRL.

Real-time index values are calculated with the midpoint between the latest available real-time bid- and ask-prices. The closing values for this index are calculated at 22:40:00 CET with fixed 16:00 London time exchange rates from WM company.

The MarketVector™ Brazil Small-Cap Value (BRL) Index is calculated as a price return index and a total return net index and has the following identifiers:

| Index Type             | ISIN         | SEDOL   | WKN    | Bloomberg | Reuters   |
|------------------------|--------------|---------|--------|-----------|-----------|
| Price Return Index     | DE000SL0F9V5 | BPW93P5 | SL0F9V | MVBRSV    | .MVBRSV   |
| Total Return Net Index | DE000SL0F9W3 | BPW93R7 | SL0F9W | MVBRSVTR  | .MVBRSVTR |

The index was launched on July 5, 2022 with a base index value of 1000.00 as of December 31, 2013.

## 4 GENERAL DEFINITION

### 4 General Definition

#### 4.1 Free-Float

The indexes are free-float adjusted - the number of shares outstanding is reduced to exclude closely held shares (amount larger than 5% of the company's full market capitalization) from the index calculation.

At times, other adjustments are made to the share count to reflect foreign ownership limits or sanctions. These are combined with the block-ownership adjustments into a single factor. To avoid unwanted double counting, either the block-ownership adjustment or the restricted stocks adjustment is applied, whichever produces the higher result.

Free-float factors are reviewed quarterly.

#### 4.2 Index Types/Dividend Payments

The total return index includes all dividend payments (for the total return net indexes on a net-dividend basis, i.e., net dividend equals declared dividend less withholding tax, and for the total return gross indexes on a gross-dividend basis, i.e., gross dividend equals declared dividend) and the price return index only includes special dividends from non-operating income or cash dividends that are either declared as special or extraordinary, or do not coincide with the company's regular dividend distribution schedule.

Australian companies may pay dividends with or without franking credits (unfranked, partially franked or fully franked) attached. Withholding tax will only be applied on the unfranked portion of the dividend but not on the franked portion of the dividend or unfranked portion of the dividend declared to be conduit foreign income.

For the most recent list of withholding taxes, please refer to our website ([www.marketvector.com/withholding-taxes](http://www.marketvector.com/withholding-taxes)).

If the dividend amount for an index component is not available on the ex-date, an amount of zero will be applied. If for the same index component the dividend amount is available after the ex-date and applied to the price of this company, there will still be no adjustment to the index on this day either.

For dividends of Japanese and South Korean companies a post ex-date dividend adjustment is in place due to fact that they do not confirm their dividends prior to the ex-date. The delta amount between the confirmed and estimated dividend amount will be applied by using the index dividend points calculated with the number of shares on the dividend ex-date. In regards to the post ex-date dividend adjustment the historical index levels are not restated.

## 5 Ongoing Maintenance

### 5.1 Changes to Free-Float Factors and Number of Shares

Changes to the number of shares or the free-float factors due to corporate actions like stock dividends, splits, rights issues, spin-offs etc. are implemented on the ex-date.

Any secondary issuance, share repurchase, buy back, tender offer, Dutch auction, exchange offer, bought deal equity offering or prospectus offering will be updated at the quarterly review if the change is smaller than 10%. Changes larger than 10% will be pre-announced (three trading days notice) and implemented on the first dissemination day of the following month (on a best effort basis). If necessary and information is available, resulting float changes will be taken into consideration.

Share changes that result from M&As shall impact all indexes of the MarketVector™ Equity Index family that contain affected companies on the merger effective date with no weighting cap factor change; the 10% share change restriction is removed. Nevertheless, share changes due to M&As in the MarketVector™ Total Global Equity Index or its derived subset indexes may not result in adjustments to other indexes, nor may changes in other indexes have any effect on them.

### 5.2 Changes due to Mergers & Takeovers

A merger or takeover is deemed successful if it has been declared wholly unconditional and has received approval of all regulatory agencies with jurisdiction over the transaction. The result of a merger or takeover is typically one surviving security and one or more non-surviving securities that may not necessarily be delisted from the respective trading system(s).

The following treatments are applied for mergers and takeovers containing stock terms:

- If an index component merges with or takes over another index component:  
The surviving security remains in the index and the other security is deleted immediately from the index. Its shares and float are adjusted according to the terms of the merger/takeover. The index market capitalization of the merged company corresponds to the market capitalization of the two separate companies.
- If a non-index component merges with or takes over an index component:
  - If the surviving security meets the eligible index universe requirements, it will be added to the index. Its shares and float will be adjusted according to the terms of the merger/takeover and will replace the current index component.
  - If the surviving security does not meet the eligible index universe requirements, it will not be added to the index and the current index component will be deleted immediately from the index.

The following treatments are applied for mergers and takeovers with cash terms only:

- If a non-index component merges with or takes over an index component:
  - The index component will be deleted.

## 5 ONGOING MAINTENANCE

### 5.3 Changes due to Spin-Offs

The spun-off company will be added to the index where the parent company is an index constituent according to the transaction terms, with a price of zero, on the ex-date. If the spun-off does not start trading on the ex-date a fixed indicative price will be used until the first trading day. If an indicative price is not possible to be calculated the spun-off company will be added with a price of zero to the index. If the spun-off does not qualify for the index it will be deleted after two trading days based on its respective closing price.

### 5.4 Additions due to Replacements

For all corporate events that result in a security deletion from the index, there is no replacement. The additional weight resulting from the deletion will be redistributed proportionally across all other index constituents.

### 5.5 Changes to the Index Guide

Any changes to the Index Guide will be reviewed and approved by the Legal and Compliance Department. Legal and Compliance may also request a conclusive description and further information on any change and may consult the operations department on such changes. The key elements to be analyzed in this phase of the change process are robustness, transparency, reliability and integrity. The result of the review will be communicated to the operations department. The email will be archived by the operations department.

In case of changes that might immediately change the composition of an index or must be considered material for any other reason also need to be approved by the Independent Oversight Function (“IOF”) prior to their publication and implementation.

In case of material changes an advance notice will be published and provided to users. MarketVector Indexes will generally disseminate a notification related to an Index Guide change 30 days prior to the change. A shorter period of time may be applied at MarketVector Indexes’ discretion if the relevant index has not been licensed for a financial product to a third party. The notice will describe a clear time frame that gives the opportunity to analyze and comment upon the impact of such proposed material change. Any material comments received in relation to the Index Guide change and MarketVector Indexes’ response to those comments will be made publicly accessible after any consultation, except where confidentiality has been requested by the originator of the comments.

### 5.6 Discretion regarding the Use of Input Data

Pursuant to Art. 12 No.1. (b), MarketVector Indexes has established the following rules identifying how and when discretion may be exercised in the administration of an index.

In case input data are or appear to be qualitatively inferior or different sources provide different data, an extraordinary event, or a situation is not covered by the index rules, MarketVector Indexes may use or change data/index composition at its own discretion according to the following discretion policy after a plausibility check. Regarding input data, this may include:

- Liquidity and size data,
- Ownership structures,
- Revenue and asset breakdowns,

## 5 ONGOING MAINTENANCE

- Corporate action information,
- Dividends, volatility and other secondary data.

Regarding extraordinary events, this may include:

- Trading stops,
- Regulatory actions,
- Detection of fraud,
- Tradability,
- Etc.

Any changes must subject to reasonable discretion. The decision on any change must be required, appropriate, commensurable and in line with the respective index scope and objective and must reasonably consider in a balance weight the interest of Users, investors in related products and the integrity of the market.

Index operations ensures consistency in the use of discretion in its judgement and decision. Employees involved in the operations team must have shown the respective experience and skills. Significant decisions are subject to sign-off by a supervisor. In case of material changes to data the relevant situation will be analyzed in detail, described and presented to the IOF and discussed and reviewed with the IOF.

The broad range of possible data quality problems does not allow to define specific steps for each possible instance. MarketVector Indexes will always weight the different interest of the index users, the integrity of the market and other involved parties and determine the least disadvantageous measure that equally considers the relevant interests best.

In order to avoid individual decisions on the use of data in similar cases for the future an update of the index rules can be taken into consideration if applicable. Other possible mitigation measures are the change of input data sources or providers and/or own data research where possible and reasonable.

Records are kept about material judgement or discretion by MarketVector Indexes and will include the reasoning for said judgement or discretion.

### 5.7 Input Data and Contributor Selection

According to the input data requirements under Art. 11 of the Benchmark Regulation, the following shall apply with regard to the input data used for the management and provision of an index and the relevant input data providers (“Contributors”):

- the input data shall be sufficient to represent accurately and reliably the market or economic reality that the benchmark is intended to measure;
- the input data shall be transaction data, if available and appropriate. If transaction data is not sufficient or is not appropriate to represent accurately and reliably the market or economic reality that the index is intended to measure, input data which is not transaction data may be used, including estimated prices, quotes and committed quotes, or other values;
- the input data shall be verifiable;

## 5 ONGOING MAINTENANCE

- clear guidelines regarding the types of input data, the priority of use of the different types of input data and the exercise of expert judgement, to ensure compliance with the Index Guide and index methodology and the aforementioned requirements are defined in the Code of Conduct for Contributors; and
- where an index is based on input data from Contributors, MarketVector Indexes will obtain, where appropriate, the input data from a reliable and representative panel or sample of Contributors so as to ensure that the resulting index is reliable and representative of the market or economic reality that the index is intended to measure.

In order to control the quality of contributors, MarketVector Indexes will conduct the following controls:

- Evaluate market share, reputation, quality and cost of possible input data sources and providers before selecting them on the basis of the gathered information and data;
- Compare the input data of one Contributor with the input data from one or more other Contributors in order to ensure the integrity and accuracy of the input data and in case of bad quality replace a Contributor with another Contributor.

MarketVector Indexes will not use input data from a contributor if it has any indication that the Contributor does not adhere to its Code of Conduct for Contributors and in such a case shall obtain representative publicly available data.

## 6 CALCULATION

## 6 Calculation

### 6.1 Index Formula

The index is calculated using the Laspeyres' formula:

$$Index\ Value = \frac{\sum_{i=1}^n p_i * q_i * ff_i * cf_i * fx_i}{D} = \frac{M}{D}.$$

Where (for all securities (i) in the index):

- $p_i$  = security price,
- $q_i$  = number of shares,
- $ff_i$  = free-float factor,
- $fx_i$  = exchange rate (local currency to index currency),
- $cf_i$  = weighting cap factor (if applicable, otherwise set to 1),
- $M$  = free-float market capitalization of the index,
- $D$  = divisor.

### 6.2 Input Data

The following rounding procedures are used for the index calculation:

- Rounding to 2 decimal places:
  - free-float factors ( $ff_i$ ),
- Rounding to 3 decimal places:
  - index values,
- Rounding to 4 decimal places:
  - security prices ( $p_i$ ),
- Rounding to 6 decimal places:
  - divisors ( $D$ ),
- Rounding to 12 decimal places:
  - exchange rates ( $fx_i$ ),
- Rounding to 16 decimal places:
  - company-weighting cap factors ( $cf_i$ ).

### 6.3 Divisor Adjustments

Index maintenance - reflecting changes in shares outstanding, capital actions, addition or deletion of securities to the index - should not change the level of the index. This is accomplished with an adjustment to the divisor. Any change to the securities in the index that alters the total market value of the index while holding security prices constant will require a divisor adjustment.

## 6 CALCULATION

$$Divisor_{new} = Divisor_{old} * \frac{\sum_{i=1}^n p_i * q_i * ff_i * cf_i * fx_i \pm \Delta MC}{\sum_{i=1}^n p_i * q_i * ff_i * cf_i * fx_i}$$

$\Delta MC$  = Difference between closing and adjusted closing market capitalization of the index.

### 6.4 Corporate Action Related Adjustments

Corporate actions range widely from routine share issuances or buy backs to unusual events like spin-offs or mergers. These are listed on the table below with notes about the necessary changes and whether the divisor will be adjusted.

$p_i$  = security price,

$q_i$  = number of shares.

- |                                                                                                                                                                                                                                                                                                       |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <ul style="list-style-type: none"> <li>• Cash dividend (for total return indexes only)</li> </ul>                                                                                                                                                                                                     | Divisor change: Yes |
| $p_{(i,adjusted)} = p_i - (Dividend * (1 - Withholding Tax))$<br>(In total return gross indexes the withholding tax is 0.)                                                                                                                                                                            |                     |
| <ul style="list-style-type: none"> <li>• Special cash dividend (for price and total return indexes)</li> </ul>                                                                                                                                                                                        | Divisor change: Yes |
| $p_{(i,adjusted)} = p_i - (Dividend * (1 - Withholding Tax))$<br>(In total return gross indexes the withholding tax is 0.)                                                                                                                                                                            |                     |
| <ul style="list-style-type: none"> <li>• Split</li> </ul>                                                                                                                                                                                                                                             | Divisor change: No  |
| Shareholders receive 'B' new shares for every 'A' share held.<br>$p_{(i,adjusted)} = p_i * A/B$<br>$q_{(i,adjusted)} = q_i * B/A$                                                                                                                                                                     |                     |
| <ul style="list-style-type: none"> <li>• Rights Offering</li> </ul>                                                                                                                                                                                                                                   | Divisor change: Yes |
| Shareholders receive 'B' new shares for every 'A' share held. If the subscription-price is either not available or not smaller than the closing price, no adjustment will be made.<br>$p_{(i,adjusted)} = ((p_i * A) + (Subscription Price * B)) / (A + B)$<br>$q_{(i,adjusted)} = q_i * (A + B) / A$ |                     |
| <ul style="list-style-type: none"> <li>• Stock dividend (withholding taxes are applied, if applicable)</li> </ul>                                                                                                                                                                                     | Divisor change: No  |
| Shareholders receive 'B' new shares for every 'A' share held.<br>$p_{(i,adjusted)} = p_i * A / (A + B)$<br>$q_{(i,adjusted)} = q_i * (A + B) / A$                                                                                                                                                     |                     |
| <ul style="list-style-type: none"> <li>• Stock dividend from treasury (withholding taxes are applied, if applicable)</li> </ul>                                                                                                                                                                       | Divisor change: Yes |
| Stock dividends from treasury are adjusted as ordinary cash dividends. Shareholders receive 'B' new shares for every 'A' share held.<br>$p_{(i,adjusted)} = p_i - (p_i * B) / (A + B)$                                                                                                                |                     |
| <ul style="list-style-type: none"> <li>• Stock dividend of a different company security (withholding taxes are applied, if applicable)</li> </ul>                                                                                                                                                     | Divisor change: No  |
| The shares of the different company will be added according to the terms.                                                                                                                                                                                                                             |                     |



## 6 CALCULATION

- Addition/Deletion of a company Divisor change: Yes  
Net change in free-float market value determines the divisor adjustment.
- Changes due to a merger/takeover Divisor change: Yes  
Net change in free-float market value determines the divisor adjustment. In case of no change, the divisor change is 0.
- Spin-offs Divisor change: No  
Shareholders receive 'B' new shares for every 'A' share held.
- Changes in shares outstanding Divisor change: Yes  
Net change in free-float market value determines the divisor adjustment. In case of no change, the divisor change is 0.

With corporate actions where cash dividends or other corporate assets are distributed to shareholders, the price of the security will drop on the ex-dividend day (the first day when a new shareholder is eligible to receive the distribution.) The effect of the divisor adjustment is to prevent this price drop from causing a corresponding drop in the Index.

Corporate actions are announced at least four days prior to implementation.

### 6.5 Data Correction and Disruptions

MarketVector Indexes will usually receive information about errors or disruption from calculation agent, client, internal systems (IT) or by monitoring the respective output. Incorrect or missing input data will be corrected immediately:

- The error is immediately communicated to the calculation agent, if applicable.
- Calculation agent will be asked to investigate the reason for the error.
- An email will be sent to all affected clients to inform them about the error; this includes the reason for the issue and an estimate on when the issue will be solved.
- MarketVector Indexes recalculates missing EOD data points and disseminates to vendors and clients.

In case of a material error,

- Legal and Compliance to check the relevant agreements for liability of the calculation agent.
- If MarketVector Indexes identifies any conduct that may involve manipulation or attempted manipulation of an index by calculation agent it will report this to the regulator.
- Where possible and economically reasonable MarketVector Indexes will try use another calculation agent.

Investigations and communication regarding disruptions with calculation agents will be handled by Compliance and Senior Management. They are either caused by disruptions in calculation or dissemination, which might affect different servicers.

- The disruption is immediately communicated to the calculation/dissemination agent, if applicable.
- Calculation/dissemination agent will be asked to investigate the reason for the disruption.

## 6 CALCULATION

- An email will be sent to all affected clients to inform them about the disruption; this includes the reason for the issue and an estimate on when the issue will be solved.
- MarketVector Indexes prompts calculation agent to make all efforts to restart index calculation.
- MarketVector Indexes prompts Dissemination agent to make all efforts to restart index dissemination.
- MarketVector Indexes recalculates missing EOD data points and disseminates to vendors and clients.
- Legal and Compliance to check the relevant agreements for liability of the calculation/dissemination agent.
- If MarketVector Indexes identifies any conduct that may involve manipulation or attempted manipulation of an index by calculation/dissemination agent it will report this to BaFin.
- Where possible and economically reasonable MarketVector Indexes will try use another calculation and/or dissemination agent.

## 7 APPENDIX

## 7 Appendix

### 7.1 Changes to the Index Guide

This table contains all changes to the index guide after January 1, 2018 when the European Benchmark Regulation became effective.

| Date              | IG Version | Change                                                                                                                                                                                                |
|-------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| August 31, 2022   | -          | Share changes implemented on a monthly basis                                                                                                                                                          |
| August 31, 2022   | -          | Discretion in case of extraordinary events                                                                                                                                                            |
| August 31, 2022   | -          | Market cap for junior/small-cap indexes are determined based on the most liquid listing (ex DRs)                                                                                                      |
| February 28, 2023 | -          | The nominal value used in the liquidity overlay may be adjusted downward to allow the aggregate weight of all index components to equal to 100% while satisfying all other capping scheme constraints |
| February 28, 2023 | -          | Ineligibility of FII's                                                                                                                                                                                |
| February 28, 2023 | -          | Removal of 10% share change restriction for M&As for surviving companies                                                                                                                              |
| August 29, 2023   | -          | Net Income:Price ratios calculations use earnings before extraordinary items, if available                                                                                                            |
| May 27, 2024      | 1.00       | Initial publication of the individual index guide and discontinuation of the MarketVector Global Equity Index Guide                                                                                   |
| August 7, 2024    | 1.01       | Inclusion of Collateral Acceptance Criteria by B3                                                                                                                                                     |
| May 30, 2025      | 1.02       | Dissemination of 3 decimals                                                                                                                                                                           |

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