

# Index Methodology Guidebook

## EQM Future of Defence Index

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Version #1.0

[www.eqmindexes.com](http://www.eqmindexes.com)



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# Log of Amendments

1. **27.01.2022** – v.1.0. First publication of methodology guide.

# Introduction and Background

## ABOUT THE INDEX

The **EQM Future of Defence Index** is a rules-based index that tracks the market performance of companies, listed globally on recognized exchanges, that provide exposure to NATO and select non-NATO ally defense and cyber-defense spending. The index constituents are weighted using a modified free float market capitalization weighting algorithm and rebalanced quarterly. Index values are disseminated on an intraday and end-of-day basis.

## ABOUT BITA

BITA is a Germany-based Fintech that provides enterprise-grade indexes, data and infrastructure to institutions operating in the passive and quantitative investment spaces. Thanks to its innovative index management infrastructure, designed to outperform other existing solutions in terms of flexibility and speed, BITA can provide independent, methodologically sound indexes that are both investable and replicable by customers and stakeholders. BITA's methodologies and processes are completely transparent and available publicly.

## ABOUT EQM

EQM Indexes LLC is a woman-owned firm dedicated to creating and supporting innovative indexes that track growth industries and emerging investment themes. They partner with issuers and work jointly with other index firms to provide benchmarks for Exchange Traded Products (ETPs) such as Exchange Traded Funds (ETFs), Exchange Traded Notes (ETNs), and other similar products. EQM Indexes LLC also assists firms on a fee basis to design and implement their index ideas.

## ABOUT THIS DOCUMENT

This document is published to serve as a guidebook of the methodologies adopted in the construction, calculation, and management of the index.

Any methodological changes or alterations to this document are performed by the BITA Index Management Board (BIMB) and authorized by the BITA Oversight Function, following the directives of both the "BITA Index Methodology Policy" and the Regulation (EU) 2016/2011 "Benchmark Regulation" (BMR). The index is owned, calculated, administered, and disseminated by BITA GmbH.

# Index Characteristics and Specifications

## 1. GENERAL INFORMATION AND INDEX OBJECTIVES

The **EQM Future of Defence Index** is a rules-based index (hereafter "**The Index**") that tracks the market performance of companies, listed globally on recognized exchanges, generating revenues from NATO and select non-NATO ally defense and cyber-defense spending. The index constituents are weighted using a modified free float market capitalization weighting algorithm and rebalanced quarterly. Index values are disseminated on an intraday and end-of-day basis.

- **Inception Date:** 27.01.2023
- **Index value at inception:** 100
- **Return Calculation:** Net Total Return
- **Weighting Mechanism:** Modified, free-float market capitalization weighted
- **Rebalancing Frequency:** Quarterly
- **Reconstitution:** Quarterly
- **Number of Constituents:** Variable, with a maximum of 50

The base currency of the index is USD. Index values may also be published in other currencies when applicable.

## 2. SHORT NAME AND IDENTIFIERS

The index is distributed under the following identifiers

Name	Type	FIGI	Ticker
EQM Future of Defence Index	Equity		NATONTR

## 3. EU BENCHMARKS REGULATION CONSIDERATIONS AND STATEMENT

BITA GmbH is the benchmark "administrator" of the EQM Future of Defence Index, the "Benchmark" or "Index"<sup>1</sup>.

The Index is calculated based on readily available data and does not use any contributed input data (as defined in Article 3(1)(8) of the BMR). The Index is classified as a non-significant benchmark (as defined in Article 3(1)(27) of the BMR).

The Index promotes social characteristics through the consideration of ESG factors. The Index is not classified as EU Climate Transition Benchmark (as defined in Article 3(1) (23a) of the BMR) or EU Paris-aligned Benchmark (as defined in article 3(1) (23b) of the BMR).

For the complete Benchmark Statement on the Index, please refer to the "[BITA Governance Policies](#)".

<sup>1</sup>The term administrator is used in this document in the same sense as it is defined in Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds (the "Benchmarks Regulation" or "BMR").

This Methodology guide should be read in conjunction with the Index's Benchmark Statement and other associated BITA Governance policies and methodology documents. These documents are highlighted whenever referenced in this Methodology guide. They are also available on BITA's website (<https://www.bitadata.com/governance.html>).

## 4. INPUT DATA

In line with the input data requirements under the Article 11 of the Regulation (EU) No 596/2014 (the "Benchmarks Regulation" or "BMR"), the Index does not use contributions of input data, which may be prone to contributor discretion. A contribution of input data is defined as such data not readily available to an administrator or to another person for the purposes of passing to an administrator that is required in connection with the determination of a benchmark and is provided for that purpose. See Article 3(1)(8) of the EU Regulation 2016/1011 of the European Parliament and of the Council of 8 June 2016.

At each calculation point, the index value is calculated based on the constituents' individual quotes on the respective regulated exchanges. The constituents' most recent prices are used. When the constituents are quoted in a different currency, quotes are translated using the most recent spot FX rates. The daily index closing value is calculated using the spot FX rates as of the 16.00 hrs London (UTC + 01:00) WM fixing quoted by Reuters. If no 16:00 London WM Fixing is available, an alternative 16:00 London spot rate will be used.

For more detailed information on specific guidelines regarding the types of Input data, the procedures for the control of input data and the exercise of expert judgement please refer to the "[BITA Input Data Policy](#)".

## 3. INDEX CALCULATION AND DISSEMINATION FREQUENCY

### 5.1. Calculation Methodology

The index is based on the Laspeyres formula, which links each successive weighted basket of securities in the index with the preceding basket. This translates into a unique index "Divisor" for each index, which is adjusted to maintain the continuity of the index's values across changes due to corporate actions.

### 5.2. Calculation Frequency

The official index closing level is calculated once a day, every Business Day (EoD calculation). In addition to the official close calculation, index levels are calculated intraday with a 1-second resolution during the index dissemination period. Historical "EoD" index data is available as backtested data starting on the index backtesting date, and as calculated and maintained data starting on the index inception date. At each calculation point, the index value is calculated based on the constituents' individual quotes on the respective regulated exchanges. The constituents' most recent prices are used. When the constituents are quoted in a different currency, quotes are translated using the most recent spot FX rates. The daily index closing value is calculated using the spot FX rates as of the 16.00 hrs London (UTC + 01:00) WM fixing quoted by Reuters. If no 16:00 London WM Fixing is available, an alternative 16:00 London spot rate will be used.

### 5.3. Index Dissemination

The Intraday Calculation and Dissemination of the Index occurs every Business Day between 9:30 ET and 16:00 ET. Official index EOD levels are calculated and disseminated after the close of all exchanges on which the index constituents are listed (EoD calculation). A day is a Business Day if at least one of the exchanges considered in the Index is open for trading.

The index is distributed via BITA's direct dissemination channels and a variety of data vendors when applicable.

# Index Methodology

## 1. UNIVERSE CONSTRUCTION

### 1.1 Initial Universe

The Initial Universe is composed of global equities trading on a major global exchange headquartered in NATO+ countries which includes NATO member countries and select major non-NATO allies as defined in the Appendix. The composition of the initial universe is ordinarily reviewed on a quarterly basis by EQM Indexes LLC (the “Determination Agent”) and is filtered as follows:

- A. Minimum Thematic Exposure:** Constituent business operations must derive more than 50% of their revenues from the manufacture and development of military aircraft and/or defense equipment (military armored vehicles & tanks, weapon systems and missiles, munitions and accessories, electronics & mission systems, and naval ships), or cyber security contracting with a NATO+ member nation verified by publicly available contract information.
- B. ESG/Human Rights Filter:** Constituent business operations must be in compliance with United Nation Global Compact (UNGC) principles and Organisation for Economic Cooperation (OECD) Guidelines for Multinational Enterprises and determined by EQM Indexes.

Compliance with United Nation Global Compact (UNGC) principles and Organisation for Economic Cooperation (OECD) Guidelines for Multinational Enterprises as determined by EQM through a review process of publicly available data provided by the company in regulatory filings (such as Annual Reports, 10-Ks, 10-Qs, 20-Fs, 8-Ks), quarterly earnings reports.

After all filters have been applied, the resulting basket of securities will be considered the Index Initial Universe.

### 1.2. Eligible Universe

The Final Eligible Universe is constructed after the application of the following screens and filters:

- A. Minimum Size Requirement:** Securities of companies with market capitalization below USD 1 billion are excluded.
- B. Minimum Free-float Requirement:** Securities with free-float of less than 20% are excluded.
- C. Minimum Liquidity Requirement:** Securities with a 3-month ADTV below USD 1 million are excluded.

After all the filters, screens, and adjustments are applied, the resulting basket of securities will be considered the Eligible Universe of the Equity Portfolio.

## 2. INDEX CONSTITUENT SELECTION

### 2.1. Index Ranking

From the Eligible Universe, companies are ranked according to their free-float market capitalization.

The top 50 securities ranked in descending order are selected for inclusion in the index. In the case that two or more securities are tied for the 50th position of the ranking, the security with the highest 3-month ADTV is selected for inclusion.

If there are fewer than 50 eligible securities, all securities from the Eligible Universe are selected as constituents.

## **2.2 Security Considerations**

If a company has more than one share class that qualifies for membership on a stand-alone basis in the index, only the highest ranked share class will be considered for composition, as ranked by ADTV.

## **3. INDEX WEIGHTING**

On the Determination Day, index constituents are weighted by free-float market capitalization as follows:

$$Weight_n = \frac{FFMC_n}{\sum_{n=1}^i FFMC_n}$$

Where:

**n** is a constituent in the final portfolio

**FFMC<sub>n</sub>** is the free float market capitalization of constituent **n**

## **4. INDEX CAPPING**

Once the initial constituent weights are set as in the previous section, each constituent weight is further iteratively reviewed and adjusted (if required) according to the following combined methodology.

### **4.1. Liquidity Capping**

The initial weights of each constituent are reviewed and adjusted (if required) through a liquidity optimization process that limits single day trading to 25% of value traded for any constituent given a theoretical \$25,000,000 inflow.

The liquidity-adjusted weights are iteratively calculated as follows:

i) Liquidity thresholds are set:

- a. 90-day Average Daily Value Traded (**ADV<sub>\$i</sub>**) for the *i*-th constituent is calculated based on daily closing price and number of shares traded;
- b. The **ADTV** threshold (**ADTVTH**) for the Percentage of 90-day Average Daily Value Traded (**ADV%<sub>i</sub>** for the *i*-th constituent) is set to 25%;
- c. Investment threshold **ITH** is set to \$25,000,000;
- d. Liquidity threshold weight for the *i*-th constituent is calculated based on the investment threshold **ITH** and **ADTVTH** as follows:

$$W'_i = \left( \frac{ADTVTH \times ADV_{\$i}}{ITH} \right)$$

ii) The  $ADV\%_i$  for the  $i$ -th constituent is determined given the investment threshold  $ITH$  and the calculated weight of the constituent using the following equation:

$$ADV\%_i = \left( \frac{W_i \times ITH}{ADV\$_i} \right)$$

Where:

$W_i$  is the calculated weight of the  $i$ -th constituent

$ADV\%_i$  = Percentage of 90-day Average Daily Value Traded for the  $i$ -th constituent

$ADV\$_i$  = 90-day Average Daily Value Traded for the  $i$ -th constituent

iii) If the constituent  $ADV\%_i$  is less than the  $ADTVTH$ , then that weight does not need to be adjusted until step (iv.b) below. If none of the constituents has  $ADV\%_i$  greater than the  $ADTVTH$ , then none of the weights need to be adjusted for liquidity threshold which concludes this part of the weighting process (skip to step (v) below).

iv) If the  $ADV\%_i$  for one or more constituents is greater than the  $ADTVTH$ , then the threshold weight  $W^*_i$  is assigned to each of them respectively, such that the  $ADV\%_i$  is equal to the  $ADTVTH$  for each such constituent:  $W_i = W^*_i$ . The excess weights are redistributed among the remaining constituents which have  $ADV\%_i < ADTVTH$  in the following steps:

- a. The aggregate difference between the initial and adjusted weights of those constituents where the  $ADV\%_i$  is greater than the  $ADTVTH$  is distributed on a pro-rata basis among stocks where the  $ADV\%_i$  is less than the  $ADTVTH$ , using the following equation:

$$W_{adj,i} = \frac{W_i |_{ADV\%_i < ADTVTH}}{\sum_{j |_{ADV\%_j < ADTVTH}} W_j} \times \sum_{k |_{ADV\%_k > ADTVTH}}^n (W_k - W^*_k)$$

Where:

$W_{adj,i}$  is the pro-rata adjustment for the index weight of the  $i$ -th constituent where the  $ADV\%_i$  is less than the  $ADTV$  Threshold  $ADTVTH$ ;

$W^*_i$  is the liquidity weight threshold defined in Step (i.d) above.

The summation limits indicate which constituents' weights are in scope: those with  $ADV\%_i$  greater or lower than the  $ADTV$  Threshold  $ADTVTH$ .

- b. The weight of constituents with an  $ADV\%_i$  lower than the  $ADTV$  Threshold are adjusted as follows:

$$W''_i = W_i + W_{adj,i}$$

Where:

$W_i$  is the weight of the  $i$ -th constituent which has  $ADV\%_i$  lower than the  $ADTV$  Threshold

$W''_i$  is the modified weight of each constituent where  $ADV\%_i$  is lower than the  $ADTV$  Threshold

$W_{adj}$  is the adjustment for index weight of the  $i$ -th constituent where the  $ADV\%_i$  is lower than the  $ADTV$  Threshold

v) Finally, the value of the capped weight  $W_i$  is reassigned to value of the  $W''_i: W_i = W''_i$ . The Steps (ii) through (iv) are repeated iteratively until all constituents' Percentage of Average Daily Value Traded is less than or equal to the **ADTV** Threshold.

#### **4.2. Individual Security Capping**

To avoid undue concentration, the weights of all index constituents after each iteration of liquidity adjustment are subject to the following capping constraints:

- The weights of each issuer cannot exceed 5% of the total index weight.
- The weights of each issuer cannot go below 0.2% of the total index weight.
- The cumulative weight of all constituents representing more than 4.5% of the index cannot exceed 40% of the total index weight.
- The cumulative weight of all constituents representing a single country on aggregate cannot exceed 60% of the total index weight.

The weights in excess are redistributed proportionally among the rest of the uncapped securities.

Once the individual security capping conditions outlined in section 4.2 are satisfied, the liquidity-based capping may need to be reiterated on additional cycles on each determination date.

This iterative process of satisfying both capping criteria is repeated until neither of the two rules is breached.

## **5. INDEX REVIEW SCHEDULE**

### **5.1. Ordinary Adjustments**

The Index is reconstituted and rebalanced quarterly in January, April, July, and October at the Close of Business (COB) on the fourth Tuesday of the rebalancing month after market close.

The Determination Date for ordinary adjustments occurs at the COB, five trading days prior to the rebalancing / reconstitution date.

New components are eligible for inclusion at the time of rebalance provided they meet all other index eligibility requirements.

BITA provides constituent pro-forma files each time the Index rebalances. Pro-forma files are normally released daily, covering the period between the Determination and Effective dates (proforma period).

Deletion Replacement: No replacement.

### **5.2. Extraordinary Adjustments**

BIMB may decide to substitute an index constituent or perform an extraordinary adjustment to the index upon the occurrence of an extraordinary event as deemed by BIMB or according to the "[BITA Corporate Actions Treatment Guide](#)". In such cases, BITA will announce the index adjustment with a notice period of at least 2 trading days (with respect to the affected constituent) on BITA's website and proceed to its implementation after the close of business on the effective date as specified in the aforementioned announcement.

Between reconstitutions, deletions can occur due to corporate actions such as acquisitions, mergers, and spin-offs, or due to insolvency. Under those circumstances, components will be deleted from the index and the proceeds distribution equally among all other remaining index components.

# Index Calculation

## 1. INDEX FORMULA

The index value is calculated every 1 second with the updated price from its constituents using the following formula:

$$Index\ Value_t = \sum_i \frac{P_{i,t} * IWF_{i,t} * TOS_{i,t} * AWF_{i,t} * F_{i,t}}{D_t}$$

Where:

**P<sub>i,t</sub>**= Price of the constituent 'i' at time t

**IWF<sub>i,t</sub>**= Investable Weighting Factor of constituent "i" at time "t"

**TOS<sub>i,t</sub>**= Total no. of Shares Outstanding of constituent "i" at time "t"

**AWF<sub>i,t</sub>**= Adjustable Weighting Factor for constituent "i" at time "t"

**F<sub>i,t</sub>**= Foreign exchange Rate for constituent "i" at time "t"

**D<sub>t</sub>**= Divisor Value at time "t"

The initial divisor (at inception  $t = t_0$ ) value is calculated according to the following formula:

$$D_{t_0} = \frac{\sum_i (P_{i,t_0} * IWF_{i,t_0} * TOS_{i,t_0} * AWF_{i,t_0} * F_{i,t_0})}{Initial\ Index\ Value}$$

On each Adjustment Day t, the divisor is adjusted to keep the index value constant. The new divisor is calculated as:

$$D_{t+1} = D_t + \frac{Change\ in\ Market\ Cap\ of\ the\ Index}{Index\ Value_t}$$

The new divisor is then used in the calculation of the following day's index open.

## 2. COMPUTATIONAL ACCURACY

The index will be calculated to 13 decimal figures.

Index values will be rounded to 2 decimal places for dissemination.

### 3. INDEX DIVISOR ADJUSTMENTS

The market capitalization of the index is affected by numerous events other than daily security price changes. At the company level, market capitalizations are affected by share changes caused by corporate actions such as takeovers, acquisitions, and spin-offs. Changes also result from company additions and deletions to the index.

In order to insulate the members of the index from the effects of index constituent changes and corporate actions, the index's market capitalization is divided by an adjustment factor called the index divisor. During the trading day, the index is computed by dividing the index's current market capitalization by the divisor value. If there are no corporate actions or constituent changes, the divisor remains unchanged for the next trading day. If there is an event resulting in a capitalization change, the index's new adjusted base market cap is calculated after the close using the adjusted prices and adjusted share figures. Then, a new divisor is calculated for use at the opening on the next trading day. The new divisor links the closing index value to the new adjusted base market capitalization of the index.

### 4. DIVIDENDS AND OTHER DISTRIBUTIONS

For the purposes of the index adjustment, BITA distinguishes between Cash dividends and Special dividends. Cash dividends are treated differently depending on the type of Index.

In a Price Return Index, regular Cash dividends are neglected and only the Special dividends are considered.

In a Gross Total Return Index, reinvestments of Cash and Special dividend distributions are considered without performing deductions due to withholding taxes.

In a Net Total Return Index, reinvestments of Cash and Special dividend distributions are considered after deducting the withholding tax.

Dividend payments and other distributions will lead to a change in the value of the divisor. The new Divisor is calculated as follows:

$$D_{t+1} = \frac{\text{Index Market Cap Open}_{t+1}}{\text{Index Value at Close}_t}$$

For detailed information on dividends treatment, please refer to the [“BITA's Corporate Action Treatment Guide”](#).

### 5. CORPORATE ACTIONS AND OTHER ADJUSTMENTS

All corporate actions and events will be monitored and processed as per the rules and methodologies explicit in [“BITA's Corporate Action Treatment Guide”](#).

Shares outstanding for constituents change regularly due to a variety of events and corporate actions. Share changes of less than 10% are implemented at the Ordinary Index Reviews.

If the number of outstanding shares for an index constituent change by more than 10% due to a corporate action, such as those listed in BITA's Corporate Actions Treatment Guide, the company's share outstanding will be updated after the close of trading on the day prior to the ex-date of the corporate action.

In the case of constituents from different countries and/or regions, it is possible that a business day in one country would be a public holiday in the other. In all such cases, the business day is considered valid, and the index is calculated and disseminated just like in the normal index days. For the constituents that have a public

holiday (i.e., no price movement) on index business day, the real-time forex rate is the only factor contributing to changes in the value of such constituents. In case that the public holiday is in the base currency of the index, then the constituent's prices are kept constant throughout the day.

## 6. CORRECTION AND RECALCULATION

To ensure accuracy, timeliness and consistency of indexes that accurately reflect economic realities, BITA has implemented an Index Correction and Recalculation Policy. Our policy has been drafted in accordance with the IOSCO Principles and the EU Benchmark Regulation directives.

As per our Index Correction and Recalculation Policy, processes are in place to reduce error likelihood, ensure timeliness of identification, avoid subjectivity of corrective decisions, and mitigate impact to clients.

While every effort is taken to ensure the accuracy of the index inputs, information and calculation, there is no guarantee that the index will be error-proof. Errors may occur due to data input errors, technology errors, application errors or other reasons.

Any Correction or Restatement made to an Index will be normally communicated to clients via email channels. The communication is done in a standardized format including an explanation of the error, the proposed rectification, and the effective date of implementation. BITA's customer service and product development teams stand always available for any additional clarification if necessary. Upon request, error reports are made available to clients.

For detailed information on specific errors, implementation timing and correction processes, please refer to the ["BITA Correction and Recalculation Policy"](#).

## 7. MARKET DISRUPTION

In periods of market stress, that might result in inaccurate market prices, delayed data inputs, illiquid constituents or fragmented markets, BITA calculates the Index following predetermined procedures as set out in its ["BITA Index Termination and Business Continuity Policy"](#), available at BITA's website.

# Index Governance and Miscellaneous

## 1. METHODOLOGY ADJUSTMENTS AND REVIEWS

The Index Methodology is reviewed on an annual basis by both the BITA Index Management Board and the BITA Oversight Committee, to make sure the Index continues to reflect the economic realities of the market and is not based on obsolete inputs or assumptions.

In case an adjustment to the Methodology is required, a detailed written “[BITA Index Methodology Policy](#)” outlines the steps and approvals required to develop, document and approve the Index and its Methodology. The purpose of the BITA Index Methodology Policy is to ensure that the methodology of the Index meets the requirements of Article 12 of the BMR and is implemented according to a robust and reliable process.

## 2. INDEX TERMINATION

When designing an index, BITA puts significant efforts in ensuring that its indexes are sustainable and can stay relevant over time. However, there might be situations (cases where an index ceases to reflect the economic reality of the market it represents, needs data that can no longer be obtained, or fails to keep achieving its objectives) where a cessation of the index may be indicated. For such cases, BITA has developed and adopted an “[Index Termination Business Continuity Policy](#)”, that includes the specific processes to identify such events, communicate and consult stakeholders, and setup potential transition plans to reduce the impact for customers and stakeholders.

## 3. INDEX GOVERNANCE BODIES

### **3.1. BITA Oversight Function**

The BITA Oversight Function is responsible for the oversight of all aspects related to the provision of benchmarks administered by BITA. The Oversight Function will receive updates from first-line internal governance bodies where appropriate.

### **3.2. BITA Index Management Board (BIMB)**

The BITA Index Management Board (BIMB) is responsible for decisions regarding the index composition as well as any changes to the rulebooks and methodology guides. The board also decides about the future composition of the index if any “Extraordinary Event” occurs and requires necessary adjustments.

## 4. ESG FACTORS DISCLOSURE

### Explanation of how ESG Factors are reflected in the key elements of the benchmark methodology

Name of the benchmark administrator.	BITA GmbH
Type of benchmark or family of benchmarks. Choose the relevant underlying asset from the list provided in Annex II to Commission Delegated Regulation (EU)2020/1816.	Equity
Name of the benchmark or family of benchmarks.	EQM Future of Defence Index
Does the benchmark methodology for the benchmark or family of benchmarks take into account ESG factors?	Yes

Please explain how those ESG factors are used for the selection, weighting, or exclusion of underlying assets.

<b>(a) List of environmental factors considered:</b>	<b>By Exclusion:</b> None <b>By Selection:</b> None <b>By Weighting:</b> None
<b>(b) List of social factors considered:</b>	<b>By Exclusion:</b> compliance with United Nation Global Compact (UNGC) principles and Organisation for Economic Cooperation (OECD) Guidelines for Multinational Enterprises <b>By Selection:</b> None <b>By Weighting:</b> None
<b>(c) List of governance factors considered:</b>	<b>By Exclusion:</b> None <b>By Selection:</b> None <b>By Weighting:</b> None

Data and standards used:

<p>(a) Data input.</p> <p>(i) Describe whether the data are reported, modelled, or sourced internally or externally.</p> <p>(ii) Where the data are reported, modelled, or sourced externally, please name the third-party data provider.</p>	<p>Social exclusion factors regarding compliance with United Nation Global Compact (UNGC) principles and Organisation for Economic Cooperation (OECD) Guidelines for Multinational Enterprises provided by EQM Indexes LLC</p>
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## 5. TERMINOLOGY

**Adjustable Weighting Factor (AWF)** is the adjustment factor introduced in the index calculation formula so that the index constituent weight capping factor is satisfied. No AWF changes occur due to corporate actions between rebalancing.

The AWF for each constituent on the determination date is calculated as:

$$AWF = \frac{CW}{W}$$

Where CW is the Capped Weight of that index constituent calculated on the determination date, and W is the uncapped weight (based on the free-float market capitalization) of that index constituent calculated on the determination date.

**Adjustment Day** is the day in which adjustments to the index divisor are performed. This could be days where reconstitution and rebalancing happen, or alternatively days before the ex-date of a corporate action.

**Average Daily Traded Value** of a stock is the sum of the Daily Traded Value over a specified period divided by the number of trading days over that specified period.

**BITA Assigned Country** is a composite country flag, determined by BITA, based on publicly available information regarding the companies' country of incorporation, country of headquarters and country of primary operations.

**Benchmark Regulation (BMR)**: Regulatory regime for benchmark administrators that ensures the accuracy and integrity of benchmarks. Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 governing Indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds and amending Directives 2008/48/EC and 2014/17/EU and Regulation (EU) No 596/2014.

**Business Day** is a day on which an exchange is open for the buying and selling of securities, generally occurring on weekdays between normal business hours.

**Capping Factor** is the factor that limits the weight of any index constituent to a maximum pre-defined limit.

**Coordinated Universal Time (UTC)** is the primary time standard by which the world regulates clocks and time.

**Daily Traded Value** of a stock is the product of the closing price of that stock and the number of shares traded on the exchange on that business day.

**Determination Date** is the date (at end of day) used as a reference for the determination of index constituents, as well as index shares and parameters, which are to be applied at rebalancing/reconstitution.

**End of Day (EoD) Index Values** are the official index close levels calculated and stored, using official exchange close prices, at the end of each business day.

**ET time:** Eastern Time is five hours behind the Coordinated Universal Time standard, written as an offset of UTC - 5:00. That means to find the standard time in the zone one must subtract five hours from Coordinated Universal Time. During the daylight-saving adjustment period (March-October), the difference is four hours.

**CET time:** Central European Time is one hour ahead of the Coordinated Universal Time standard, written as an offset of UTC + 1:00. That means to find the standard time in the zone one must add one hour to Coordinated Universal Time. During the daylight-saving adjustment period (March-October), the difference is two hours.

**Extraordinary events** are extreme market events that make index adjustments necessary. These events include:

- Merger
- Takeover bid
- Delisting
- Insolvency

For an exhaustive list, please refer to [BITA Equity Corporate Actions Treatment Guide](#).

**Gross Total Return Index** is obtained by reinvesting in the ordinary gross dividends declared by the index constituents, and assumes that any cash distributions, such as dividends, are reinvested assuming zero tax rate applicability on such cash distributions.

**Net Total Return Index** is obtained by reinvesting in the index the ordinary net dividends (i.e., less withholding taxes) declared by the index constituents, and assumes that any cash distributions, such as dividends, are reinvested with the corresponding tax rate applied on such cash distributions.

**Price Return Index** is obtained by tracking the plain prices of the index constituent instruments, unadjusted with respect to any possible dividends or other cash payouts from the instruments.

**Inception Date** refers to the official start date of the index, with the index base value as close value.

**Investable Weighting Factor (IWF)** is the percentage of shares outstanding that are included in the index calculation. In the case of Float-Adjusted Market Cap Weighted Indexes, the total shares outstanding are adjusted so that they exclude from the index calculation all shares not freely available to investors.

BITA uses fundamental data from a variety of recognized data vendors to calculate the IWF for each of its index constituents.

The **IWF** is calculated as:

$$IWF = \frac{TOS - SCH}{TOS}$$

Where **TOS** is the total number of shares outstanding, **SCH** is the number of shares restricted to investors.

Free float factors are reviewed on a regular basis in line with the rebalancing/reconstitution schedule using the most recent available data.

Changes to the number of shares due to stock dividends, splits, rights issues etc. are implemented immediately and effective the next trading day.

In the case of other corporate actions and events, if there is a change of more than 10% in the SOC, BITA will announce the update in SOC immediately and the adjustment comes into effect two trading days after the announcement. All other applicable changes are announced on the next underlying data announcement date, implemented on the index review date and effective the next trading day after implementation.

**Market Capitalization** is calculated as the product of the number of shares outstanding of the share class and the share price.

The index **Divisor** is an arbitrary number that is first defined when an index is first published. Its initial use is to divide the total value of the index to produce an index value that is easy to handle. Subsequently, the index divisor remains constant and requires adjustments, either when rebalancing and reconstituting or through corporate action treatments.

**Pro-forma Files** distributed to Index subscribers during the Pro-forma Period (i.e. the period between the determination date and the effective date of the upcoming rebalancing/reconstitution) contain the preliminary index weights, index shares and other relevant parameters for the upcoming rebalancing/reconstitution. While the index shares remain constant (unless affected by corporate actions) during the Pro-forma Period, the index weights will move along with the market.

**Total Number of Shares Outstanding (TOS)** of an index constituent on any given business day refers to a company's stock currently held by all its shareholders, including share blocks held by institutional investors and restricted shares owned by the company's officers and insiders.

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# Appendix

## MAJOR Non-NATO Ally Status

US State Department, Bureau of Political-Military Affairs  
January 20, 2021.

Major Non-NATO Ally (MNNA) status is a designation under U.S. law [\[1\]](#) that provides foreign partners with certain benefits in the areas of defense trade and security cooperation. The Major Non-NATO Ally designation is a powerful symbol of the close relationship the United States shares with those countries and demonstrates our deep respect for the friendship for the countries to which it is extended. While MNNA status provides military and economic privileges, it does not entail any security commitments to the designated country.

Privileges resulting from MNNA designation under [22 U.S.C. §2321k](#):

- Eligible for loans of material, supplies, or equipment for cooperative research, development, testing, or evaluation purposes.
- Eligible as a location for U.S.-owned War Reserve Stockpiles to be placed on its territory outside of U.S. military facilities.
- Can enter into agreements with the United States for the cooperative furnishing of training on a bilateral or multilateral basis, if the financial arrangements are reciprocal and provide for reimbursement of all U.S. direct costs.
- Eligible, to the maximum extent feasible, for priority delivery of [Excess Defense Articles](#) transferred under section 516 of the Foreign Assistance Act (if located on the southern or south-eastern flank of NATO).
- Eligible for consideration to purchase depleted uranium ammunition.

Privileges resulting from MNNA designation under 10 [U.S.C. §2350a](#):

- Eligible to enter into an MOU or other formal agreement with the U.S. Department of Defense for the purpose of conducting cooperative research and development projects on defense equipment and munitions.
- Allows firms of a MNNA, as with NATO countries, to bid on contracts for maintenance, repair or overhaul of U.S. Department of Defense equipment outside the United States.
- Allows funding to procure explosives detection devices and other counter-terrorism research and development projects under the auspices of the Department of State's [Technical Support Working Group](#).

Currently **18 countries** are designated as MNNAs under [22 U.S.C. §2321k](#) and 10 [U.S.C. §2350a](#):

- Argentina, Australia, Bahrain, Brazil, Colombia, Egypt, Israel, Japan, Jordan, Kuwait, Morocco, New Zealand, Pakistan, the Philippines, Qatar, South Korea, Thailand, and Tunisia.
- In addition, [Pub. L. 107-228](#) provides Taiwan shall be treated as an MNNA, without formal designation as such.

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