The Alerian Galaxy Global Blockchain Indexes

Index Rules and Methodology

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The Alerian Galaxy Global Blockchain Indexes

Official Rule Book

I.   General Description

The Alerian Galaxy Global Blockchain Indexes (the "Indexes") are Indexes of cryptocurrency futures, cryptocurrency Trusts, cryptocurrency ETPs, and/or companies, listed on global recognized exchanges, that are materially engaged in the development of blockchain technology, cryptocurrency mining, cryptocurrency buying, or enabling technologies that facilitate the transfer, custody, and issuance of cryptocurrency. Included in the Indexes are companies engaged in the development of blockchain technologies and related technology creators and producers that enable the development of blockchain technology.

There are four Indexes in the Alerian Galaxy Global Blockchain Index family:
- The Alerian Galaxy Global Blockchain Equity Index (Ticker: BLKCHN)
- The Alerian Galaxy Global Blockchain Equity and Futures Index (Ticker: BLKCNF)
- The Alerian Galaxy Global Blockchain Equity, Trusts & ETPs Index (Ticker: BCHAIN)
- The Alerian Galaxy Global Blockchain Index (Ticker: BLKCNP)

The Indexes comprise the following main business segments (the "Segments"):
- **Cryptocurrency Miners**
  - Companies that mine cryptocurrency assets
- **Cryptocurrency Enabling Technologies**
  - Companies that facilitate buying, selling and transfer of cryptocurrency assets
  - Companies that provide custody for cryptocurrency assets
  - Companies that provide semiconductors
  - Companies that provide cryptocurrency mining machines
- **Cryptocurrency Buyers**
  - Companies that report cryptocurrency assets on their balance sheets
- **Blockchain Users**
  - Operating companies that are engaged in the research and development of blockchain technologies for non-cryptocurrency-related purposes

In addition to the main business segments, the BLKCNF Index includes the following Segment:
- **Cryptocurrency Futures**
  - Front month futures contracts on cryptocurrencies

In addition to the main business segments, the BCHAIN Index includes the following Segment:
- **Cryptocurrency Trusts & ETPs**
  - US-listed Investment Products that invest at least 75% in Bitcoin (BTC)

In addition to the main business segments, the BLKCNP Index includes the following Segments:

- **Cryptocurrency Futures**
    - Front month futures contracts on cryptocurrencies
- **Cryptocurrency Trusts & ETPs**
    - Investment Products that are linked to cryptocurrencies

The Indexes use equal weighting methodologies within each Segment except for the *Cryptocurrency Futures* and *Cryptocurrency Trusts & ETPs* Segments, where applicable.

II.   The Index Committee

The Alerian/S-Network Index Committee (the "Committee") has oversight responsibility for the Indexes. The Committee Chairman has extensive experience with and expertise in equity markets. The other members have experience with Indexes and/or financial products.

The Committee is principally responsible for overseeing the activities related to the Index methodology, reconstitutions and rebalancings.

III.   Index Value at Inception

The Indexes have values at inception of 1000, on their common inception date of June 30, 2020. Each Index is calculated on both a Price-only and a Total Return basis.

IV.   Eligibility Criteria, Selection and Weighting

A company in any of the *Cryptocurrency Enabling Technologies*, *Cryptocurrency Miners* or *Blockchain Users* Segments shall be considered principally engaged ("Pure-Play") if it derives at least 50% of its revenues from business activities described for its Segment. A company in the *Cryptocurrency Buyers* Segment shall be considered principally engaged ("Pure-Play") if it reports cryptocurrency assets on its balance sheet amounting to at least 50% of its company market capitalization.

To be eligible for inclusion in BLKCHN, an entity must be listed on a recognized exchange (one of those listed in the Appendix herein) and principally engaged ("Pure-Play") in one of the following sectors: i) Cryptocurrency Miners, ii) Cryptocurrency Enabling Technologies, iii) Cryptocurrency Buyers, and iv) Blockchain Users.

To be eligible for inclusion in BLKCNF, an entity must be listed on a recognized exchange (one of those listed in the Appendix herein) and principally engaged ("Pure-Play") in one of the following sectors: i) Cryptocurrency Miners, ii) Cryptocurrency Enabling Technologies, iii) Cryptocurrency Buyers, iv) Blockchain Users, and v) Cryptocurrency Futures.

To be eligible for inclusion in BCHAIN, an entity must be listed on an approved exchange (one of those listed in the Appendix herein) and principally engaged ("Pure-Play") in one of the following sectors: i) Cryptocurrency Miners, ii) Cryptocurrency Enabling Technologies, iii) Cryptocurrency Buyers, iv) Blockchain Users, and v) Cryptocurrency Trusts & ETPs.

To be eligible for inclusion in BLKCNP, an entity must be listed on a recognized exchange (one of those listed in the Appendix herein) and principally engaged ("Pure-Play") in one of the following sectors: i) Cryptocurrency Miners, ii) Cryptocurrency Enabling Technologies, iii) Cryptocurrency Buyers, iv) Blockchain Users, and v) Cryptocurrency Futures, and vi) Cryptocurrency Trusts & ETPs.

Across all the Indexes, certain companies that are not principally engaged in the *Cryptocurrency Enabling Technologies*, *Cryptocurrency Buyers*, *Cryptocurrency Miners* or *Blockchain Users* Segments, but that derive significant revenues from businesses in that Segment ("Diversified" companies) may be included in the Index, provided:
1) such revenues represent more than 20% of the company's total revenues and such revenues are independently reported in the company's financial reports,
2) applicable revenues are likely to have a material impact on the company's overall share price performance,
3) research and development investments in the technology are at the forefront of the company's future initiatives, or
4) the company's applicable business is likely to have a significant impact on the sector as a whole.

A Trust or ETP must meet all of the following eligibility criteria:
- The minimum full market capitalization value shall be 1 billion USD (500 million USD for a current constituent of the Index).
- The minimum average daily trading value (ADTV) for the previous three months shall be 15 million USD (7.5 million USD for a current constituent of the Index).
- The Trust or ETP shall be open-end.

A company's stock must meet all of the following eligibility criteria:
- The stock shall not trade on an OTC Markets exchange.
- The minimum free float factor shall be 20%.
- The minimum full market capitalization value shall be 50 million USD.
- The minimum ADTV for the previous three months shall be 1 million USD.

If a company, Trust or ETP has been trading for fewer than three calendar months but at least 22 trading days, the ADTV for its entire trading history shall be used to determine eligibility.

The constituents of the Indexes' main business segments shall be selected as follows:
1) Select the top 20 eligible Pure-Play companies by their stocks' average ranks of full market capitalization and three-month ADTV.
2) If there are fewer than 20 eligible Pure-Play companies in the Segment, then continue selecting from among the eligible Diversified companies until either the fixed count is met, or all eligible companies in the Segment have been selected.

In addition to the main business segments, the BLKCNF Index shall select as follows:

- In the *Cryptocurrency Futures* Segment, select one front month contract for each cryptocurrency that has more than 10 million USD open interest on the Chicago Mercantile Exchange (CME) on the Snapshot Date, with each front month contract expiring on the last Friday of the following month.

In addition to the main business segments, the BCHAIN Index shall select as follows:
- In the *Cryptocurrency Trusts & ETPs* Segment, select all eligible Trusts or ETPs that are listed on an approved US exchange and invest at least 75% in Bitcoin (BTC).

In addition to the main business segments, the BLKCNP Index shall select as follows:
- In the *Cryptocurrency Futures* Segment, select one front month contract for each cryptocurrency that has more than 10 million USD open interest on the Chicago Mercantile Exchange (CME) on the Snapshot Date, with each front month contract expiring on the last Friday of the following month.
- In the *Cryptocurrency Trusts & ETPs* Segment, select all eligible Trusts or ETPs.

The constituents of BLKCHN shall be equally weighted.

The constituents of BLKCNF shall be weighted as follows:
- The *Cryptocurrency Futures* Segment is allocated a total of 15% Index weight, with the Segment's constituents weighted relative to one another by open interest on the Chicago Mercantile Exchange (CME) on the Weight Date, subject to a minimum Index weight of 0.5%.
- All operating companies across the Segments are weighted equally to one another.

The constituents of BCHAIN shall be weighted as follows:
- The *Cryptocurrency Trusts & ETPs* Segment is allocated a total of 15% Index weight, with its constituents weighted relative to one another based on market capitalization, subject to a minimum Index weight of 0.5%.
- All operating companies across the Segments are weighted equally to one another.

The constituents of BLKCNP shall be weighted as follows:
- The *Cryptocurrency Futures* Segment is allocated a total of 10% Index weight, with the Segment's constituents weighted relative to one another by open interest on the Chicago Mercantile Exchange (CME) on the Weight Date, subject to a minimum Index weight of 0.5%.
- The *Cryptocurrency Trusts & ETPs* Segment is allocated a total of 5% Index weight, with its constituents weighted relative to one another based on market capitalization, subject to a minimum Index weight of 0.5%.
- All operating companies across the Segments are weighted equally to one another.

Across all the Indexes, the constituents' Index Shares shall be based on prices as of the close of trading on the trade date preceding the second Friday of the rebalancing month, or the previous trade date in the event of a market holiday falling on that second Friday (the "Weight Date").

For the October 2021 reconstitution/rebalancing, the Weight Date was defined as the second Friday of the reconstitution/rebalancing month.

Prior to the October 2021 reconstitution/rebalancing, the Snapshot Date was defined as the third-to-last Friday of the reconstitution/rebalancing month; the Weight Date was defined as the Wednesday preceding the second-to-last Friday of the reconstitution/rebalancing month; and the Effective Date was defined as market close on the second-to-last Friday/market open on the Monday following the second-to-last Friday of the reconstitution/rebalancing month.

Prior to the October 2021 reconstitution and rebalancing, the BCHAIN Index allowed all eligible cryptocurrency Trusts & ETPs in its *Cryptocurrency Trusts & ETPs* Segment.

V.   Rules for Reconstitutions, Rebalancings and Index Changes

The Indexes are calculated on an end-of-day (EOD) basis by S-Network Global Indexes, Inc. (the "EOD Calculation Agent") and on an intraday basis by Refinitiv (the "Intraday Calculation Agent"). The EOD Calculation Agent is also responsible for Index maintenance and price dissemination. The EOD Calculation Agent is responsible for the calculation of the Indexes. The calculation, maintenance and dissemination rules are as follows:

Index Changes. The Indexes are rebalanced monthly at the open of trading on the Monday following the third Friday of the month or the next trade date in the event of a market holiday (the "Effective Date"). Index changes take place at each rebalancing Effective Date, except in the event of certain intramonth corporate actions, such as mergers, acquisitions, and delistings. In such cases, the change is applied on the effective date of the action, unless otherwise determined by the Index Committee. Share increases and decreases are reflected on the rebalancing Effective Date. Whenever possible, changes will be announced at least two business days prior to their implementation.

Index Reconstitutions. The Indexes are reconstituted monthly at the open of trading on the Monday following the third Friday of the month or the next trade date in the event of a market holiday (the "Effective Date").

Additions and Deletions. Additions to and Deletions from the Indexes are made 1) on the reconstitution Effective Date and 2) in the event of the deletion of a constituent stock due to a corporate action.

Deletions are made at any time, in the event a constituent is liquidated, delisted, files for bankruptcy, is acquired, or merges with another security. Upon the constituent's deletion, the weight of the removed constituent is reallocated. Additions are made only upon the Effective Date of the reconstitution.

VI.   Roles of Parties in the Monthly Rebalancings

i)   The EOD Calculation Agent will screen the Indexes' constituents to verify their continued eligibility as per requirements relevant to the rebalancing.

ii) No later than the second Friday of the rebalancing month, the EOD Calculation Agent shall provide the Committee or its designee with lists of constituents and their corresponding Index Shares for the Indexes.

iii) The Committee or its designee shall approve or reject the changes and notify the EOD Calculation Agent of its decisions no later than the Monday following the second Friday of the rebalancing month.

iv) The EOD Calculation Agent will post all final rebalancing data and information on their FTP servers prior to the market open on the rebalancing Effective Date.

VII.   Roles of Parties in the Monthly Reconstitutions

i) The EOD Calculation Agent will screen the Indexes' universes to identify those securities that meet all necessary eligibility criteria as of the last trade date of the month preceding the reconstitution month (the "Snapshot Date").

ii) The EOD Calculation Agent shall provide the Committee, or its designee, with lists of constituents for the Indexes.

iii) The Committee shall approve or reject the changes and notify the EOD Calculation Agent of its decisions no later than the Thursday preceding the second Friday of the reconstitution month.

iv) No later than the Thursday preceding the second Friday of the reconstitution month, the Index Committee or its designee will issue a press release announcing additions and deletions to the Indexes. The press release will be posted on the Indexes' website.

v) The EOD Calculation Agent will post all final reconstitution data and information on their FTP servers prior to the market open on the reconstitution Effective Date.

VIII.   Ongoing Maintenance

i) In addition to the scheduled monthly reviews, the Indexes are reviewed on an ongoing basis. Changes in Index composition and related weight adjustments are necessary whenever there are extraordinary events such as liquidations, conversions, delistings, bankruptcies, mergers or takeovers involving Index components. In these cases, each event will be taken into account on its effective date. Whenever possible, the changes in an Index's components will be announced at least two business days prior to their implementation date.

ii) Changes of Eligible Securities. In the event that a component no longer meets the relevant eligibility requirements described in Section IV herein, it will be removed from the Index on the effective date of the next reconstitution.

iii) Changes of Sector Classification. Stocks are eligible for inclusion in the Indexes based on their inclusion in an applicable sector. Mergers, takeovers, and spin-offs may cause a stock to lose its eligibility. In such a circumstance, the stock will be deleted from the Index on the effective date of the next rebalancing. A stock's classification may also require an immediate change as the result of a special event such as a merger, takeover or spin-off.

iv) Mergers. If two Index constituents merge, their component positions will be replaced by the surviving stock immediately. If an Index constituent merges with a non-component stock, it will be removed from the Index and its weight will be redistributed to all the remaining constituents on a proportional basis.

v) Takeovers. If an Index component is taken over by another component stock, the former will be removed from the Index immediately upon completion of the takeover and the weight of the removed stock will be reallocated to the acquiring stock. If an Index component is taken over by a non-component stock, it will be removed from the Index and its weight will be redistributed to all the remaining constituents on a proportional basis.

vi) Share Offerings, Tenders and Purchases. If a Rights Offering is in the money, the rights are exercised and the newly acquired shares are applied to the company issuing the rights. A divisor change is made to reduce the holdings of the remaining constituents in order to settle the acquisition of the rights. If the rights offering is out of the money, it expires worthless. Tender offers are not accepted, and no adjustments are made for self tenders or stock buybacks.

vii) Removal of Stocks Due to Delisting, Bankruptcy or Extreme Financial Distress. If an Index constituent is delisted by its primary market, or is in bankruptcy proceedings, it will be removed from the Index.

* If an Index component is delisted by its primary market due to failure to meet financial or regulatory requirements, it will be removed from the Index and its weight will be reallocated to the remaining constituents in the Index.

* If an Index component enters bankruptcy proceedings, it will be removed from the Index and will remain ineligible for re-inclusion until it has emerged from bankruptcy. However, the Committee may, following a review of the bankrupt company and the issues involved in the filing, decide to keep the stock in the Index.

* The Committee may remove a stock it has determined to be in extreme financial distress from an Index if the Committee deems the removal necessary to protect the integrity of the Index and the interests of investors in products linked to the Index.

viii) Pricing of Stocks in Extreme Financial Distress for Index Maintenance.

* When a stock is suspended from trading due to financial distress and subsequently delisted by its primary market prior to resumption of trading, the

EOD Calculation Agent will use the best-available alternate pricing source to determine the value at which the stock should be removed from the Index.

* If the stock's primary market price is no longer available due to its suspension or delisting, a current price from another exchange, such as a regional or electronic marketplace, may be used. In the absence of those prices in the case of U.S. securities, OTC Bulletin Board, OTC Equity (non-OTCBB stocks), and Pink Sheet traded prices could be applied in that order.

* If neither a traded price nor a bid/asked range is available, the Committee will evaluate the status of the suspended stock. The Committee may consult with managers of portfolios linked to Indexes in which the stock is a constituent in determining the value of the stock. If the Committee concludes that the security has become worthless or is likely to remain too illiquid to be traded, it will be removed from the Index at .01 local currency of the stock.

IX. EOD Calculation and Adjustments

The EOD Calculation Agent will calculate closing values for both the Price and Total Return Index variants based on closing prices as reported by the relevant exchanges.

i) Input Data Sources

* EOD (closing) prices and corresponding exchange rates are provided by Refinitiv.

* The number of shares is determined separately for each class of stock. This information is obtained from regulatory filings and a variety of data vendors. The data also may be sourced from the constituent companies themselves.

* Corporate actions are sourced from public news services, regulatory filings and data vendors. The constituent companies themselves may be used as an additional source.

ii) Index Formula. The Indexes are calculated using a Laspeyres formula. This formula is used for the calculation of the return Index and the price Index. The only difference is that the divisor Dt is different for the two Index variants (Total Return Index and Price Index).

Each Index is computed as follows:

$$= \frac{\sum_{i=1}^{n}(p_{it} * q_{it})}{\left(C_t \sum_{i=1}^{n}(p_{iO} * q_{iO})\right)} * Base\ Index\ Value = \frac{M_t}{B_t} * Base\ Index\ Value$$

The above mentioned formula can be simplified as: $Index_t = \dfrac{M_t}{D_t}$

Where:

$$D_t = \frac{B_t}{\text{base index value}} = \text{divisor at time (t)}$$

n	$=$	the number of constituents in the Index
p_{i0}	$=$	the closing price of constituent i at the base date

q_{i0} $=$ the number of shares/front month contracts of constituent i at the base date

p_{it}	$=$	the price of constituent i at time (t)

q_{it} $=$ the number of shares/front month contracts of constituent i at time (t)

C_t	$=$	the adjustment factor for the base date market capitalization
t	$=$	the time the Index is computed
M_t	$=$	market capitalization of the Index at time (t)
B_t	$=$	adjusted base date market capitalization of the Index at time (t)

Dividend payments are not taken into account in the Price Index variant, whereas dividend payments are reinvested in the Index constituents of the Total Return Index on a proportional basis. The divisor adjustment protects the Index from the effects of changes in Index composition and the impact of corporate actions. See the "Adjustments for Corporate Actions" subsection below for details.

iii)   Divisor Adjustments. Corporate actions affect the share capital of component stocks and therefore trigger increases or decreases in an Index. To avoid distortion, the divisor of the Index is adjusted accordingly.

iv)   Changes in an Index's market capitalization due to changes in the composition (additions, deletions or replacements), weighting (following monthly reviews, corporate actions (mergers, or special cash or stock distributions of other stocks) result in a divisor change to maintain the Index's continuity. By adjusting the divisor, the Index value retains its continuity before and after the event. For rights offerings, the EOD Calculation Agent will price the rights during the subscription period, not before or after. Alternatively, the EOD Calculation Agent may start pricing the rights after the ex-date and before the subscription period, under the condition that the rights are priced daily.

* Formulae for Divisor Adjustment. The following formulae will be used for divisor adjustments. (Note: No divisor adjustments are necessary for stock splits, since market capitalization does not change and the share number and share price are adjusted prior to the opening of trading on the split's ex-date.)

$$D_{t+1} = D_t * \left(\frac{\sum(p_{it} * q_{it}) \mp \Delta MC_{t+1}}{\sum(p_{it} * q_{it})} \right)$$

Where:

D_t	= divisor at time (t)
D_{t+1}	= divisor at time (t+1)
p_{it}	= price of constituent i at time (t)

q_{it} = number of shares/front month contracts of constituent i at time (t)

ΔMC_{t+1} = add new components' market capitalization and adjusted market capitalization (calculated with adjusted closing prices and shares effective at time t+1 and/or minus market capitalization of constituent to be deleted (calculated with closing prices and shares at time t)

Note: If the current trading price of an issue is unavailable, the previous trading session's closing price is used. However, if the issue is affected by any corporate action that requires an adjustment, then the adjusted price is used.

* Adjustments for Corporate Actions. An Index divisor may decrease (▼) or increase (▲) or keep constant (■) when corporate actions occur for a component stock. Assuming shareholders receive "B" new shares and "A" shares are originally held for the following corporate actions:

▼ A) CASH DIVIDEND (applied for return Index only)
adjusted price = closing price - dividend announced by the stock

▼ B) SPECIAL CASH DIVIDEND (applied for price and return Index)
adjusted price = closing price - dividend announced by the stock

▼ C) SPIN-OFF
adjusted price per share = closing price per share – spinoff value

■ D) SPLIT AND REVERSE SPLIT
adjusted price = closing price * A / B
new number of shares = old number of shares * B / A

▲ E) RIGHTS OFFERING
adjusted price = (closing price * A + subscription price * B) / (A + B)
new number of shares = old number of shares * (A + B) / A

■ F) STOCK DIVIDEND
adjusted price = closing price * A / (A + B)
new number of shares = old number of shares * (A + B) / A

▼ G) STOCK DIVIDEND OF A DIFFERENT STOCK SECURITY
adjusted price = (closing price * A - price of the different stock security * B)/A

▲ H) COMBINATION STOCK DISTRIBUTION (DIVIDEND OR SPLIT) AND RIGHTS OFFERING
Shareholders receive B new shares from the distribution and C new shares from the rights offering for every A shares held:

* If rights are applicable after stock distribution (one action applicable to other).

adjusted price = [closing price * A + subscription price * C * (1 + B / A)] / [(A + B) * (1 + C / A)]
new number of shares = old number of shares * [(A + B) * (1 + C / A)] / A

* If stock distribution is applicable after rights (one action applicable to other).
adjusted price = [closing price * A + subscription price * C] / [(A + C) * (1 + B / A)]
new number of shares = old number of shares * [(A + C) * (1 + B / A)]

▲ I) STOCK DISTRIBUTION AND RIGHTS (NEITHER ACTION IS APPLICABLE TO THE OTHER)
adjusted price = [closing price * A + subscription price * C] / [A + B + C]
new number of shares = old number of shares * [A + B + C]

v) Computational Precision. Values used in Index calculation are stored using up to 15 significant digits. Published Index levels are precise through six decimal places.

X. Calculation of Intraday Index Values

i) The Intraday Calculation Agent will calculate intraday Index values using price data on each reported trade it receives on each component security.

ii) The Intraday Calculation Agent will distribute Index values to vendors at set 15-second intervals, provided the Index value has changed from the previously distributed value.

iii) The Index calculations will start each US trading day at 9:30 ET. At that time, the Index values will begin changing as new prices or exchange rates are processed.

iv) Index calculation will cease each US trading day at 16:00 ET (unless earlier due to an early market closure) and official summaries will be disseminated between 17:00 ET and 19:00 ET.

v) If, during periods when an Index is calculated, one or more relevant securities exchanges are closed, the Index calculation will continue using the last closing price for those constituents that trade on the closed exchange(s).

vi) Constituent prices denominated in foreign currencies will be converted to USD with each reported price using exchange rates sourced from Refinitiv. Official closing prices for the Index constituents will be calculated using the Refinitiv snapshot rates as of 4:00 PM GMT.

XI. Dissemination of Index Data

The EOD Calculation Agent will post the following files to its FTP server prior to 7:00PM ET each trading day:

Closing Index File (CLS.SNC) – Index constituents, closing prices, weights, share weights and related data as of the day's close.

Adjusted Closing Index File (ADJ.SNC) – Index constituents, closing prices, weights, share weights and related data as of the next trading day's open.

Corporate Action File (SNA) – Data related to upcoming corporate actions for the Index's constituent stocks.

Index Values File (SNL) – Closing values for the price and total return Indexes, including divisors.

Closing values for the Indexes will be transmitted prior to 7:00PM ET for redistribution to various vendors and providers of financial data.

Index values are disseminated in US Dollars (USD) using the following tickers:

Index Name	Index Ticker
Alerian Galaxy Global Blockchain Equity Price Return Index (USD)	BLKCHN
Alerian Galaxy Global Blockchain Equity Total Return Index (USD)	BLKCHNT
Alerian Galaxy Global Blockchain Equity and Futures Price Return Index (USD)	BLKCNF
Alerian Galaxy Global Blockchain Equity and Futures Total Return Index (USD)	BLKCNFT
Alerian Galaxy Global Blockchain Equity, Trusts & ETPs Price Return Index (USD)	BCHAIN
Alerian Galaxy Global Blockchain Equity, Trusts & ETPs Total Return Index (USD)	BCHAINT
Alerian Galaxy Global Blockchain Price Return Index (USD)	BLKCNP
Alerian Galaxy Global Blockchain Total Return Index (USD)	BLKCNPT

Values for the Indexes are distributed daily prior to 7:00 PM ET Monday through Friday, excluding relevant exchange holidays.

XII.   Data Correction Policy

To maintain a high standard of data integrity, a series of procedures have been implemented to ensure accuracy, timeliness and consistency. Input prices are monitored using a variety of computerized range-check warning systems for both ticker-plant and real-time Index systems. Fault tolerant methods are employed in the collection of market and corporate action data. Various verification and audit tasks are performed to ensure the quality of the real-time data feeds and related market data. While every effort is taken to ensure the accuracy of the information used for the Index calculation, an Index error may occur due to incorrect or missing data, including trading prices, exchange rates, shares outstanding and corporate actions, due to operational errors or other reasons.

   i)   Index-Related Data and Divisor Corrections. Incorrect pricing and corporate action data for individual issues in the database will be corrected upon detection. In addition, an incorrect divisor of an Index, if discovered within five days of its occurrence, will always be fixed on the day it is discovered to pre-vent an error from being carried forward.

ii) If a divisor error is discovered more than five days after occurrence, the adjustment will depend upon how significant the error is, how far back the error occurred and the feasibility of performing the adjustment.

XIII. Review Schedule

Constituent Changes
Frequency: Monthly
Effective date: The open of trading on the Monday following the third Friday of each month, or the next trade date in the event of a market holiday
Advance notice: At least two business days

Monthly Rebalance
Frequency: Monthly
Effective date: The open of trading on the Monday following the third Friday of each month, or the next trade date in the event of a market holiday
Advance notice: At least one business day

News Notification*
Frequency: As needed
Effective date: As announced
Advance notice: At least two business days whenever possible

* Includes events such as delistings, mergers, bankruptcies and other extraordinary events.
* Based on available news.

XIV.   Appendix: List of Approved Exchanges

EXCHANGE	COUNTRY	EXCHANGE	COUNTRY
ASE	AUSTRALIA	KO	Korea, Rep.
ASX	AUSTRALIA	Luxembourg	LUXEMBOURG
Australian	AUSTRALIA	Bursa Malays	MALAYSIA
Vienna	AUSTRIA	Bursa Malaysia	MALAYSIA
EN Brussels	BELGIUM	Kuala Lumpur	MALAYSIA
Euron. Brussels	BELGIUM	Malaysia ACE Mkt	MALAYSIA
Sao Paulo	BRAZIL	Mexico	MEXICO
NEO	CANADA	Mexico City	MEXICO
Toronto	CANADA	EN Amsterdam	NETHERLANDS
TSX Venture	CANADA	Euron. Amsterdam	NETHERLANDS
Sant. Comerc	CHILE	New Zealand	NEW ZEALAND
Sant. Elec	CHILE	NZX	NEW ZEALAND
SANTIAGO	CHILE	Oslo	NORWAY
Hong Kong	CHINA	Philippine SE	PHILIPPINES
Singapore	CHINA	Philippines	PHILIPPINES
Prague	CZECH REPUBLIC	Warsaw	POLAND
Prague-SPAD	CZECH REPUBLIC	Warsaw Continuou	POLAND
Copenhagen	DENMARK	EN Lisbon	PORTUGAL
Reykjavik	DENMARK	Euronext Lisbon	PORTUGAL
Cairo	EGYPT	Catalist	SINGAPORE
Egypt (EGX)	EGYPT, ARAB REP.	Johannesburg	SOUTH AFRICA
Tallin	ESTONIA	Lagos	SOUTH AFRICA
Tallinn	ESTONIA	Korea	SOUTH KOREA
Helsinki	FINLAND	Korea SE	SOUTH KOREA
EN Paris	FRANCE	KOSDAQ	SOUTH KOREA
Euronext Paris	FRANCE	Continuous	SPAIN
Berlin	GERMANY	Madrid	SPAIN
Dusseldorf	GERMANY	Madrid-SIBE	SPAIN
Frankfurt	GERMANY	Nordic GM	SWEDEN
Munich	GERMANY	Stockholm	SWEDEN
XETRA	GERMANY	SIX Swiss	SWITZERLAND
Athens	GREECE	SIX Swiss Ex	SWITZERLAND
Hong Kong	Hong Kong	Taiwan	TAIWAN
NASDAQ CM	HONG KONG	Istanbul	TURKEY
Budapest	HUNGARY	London	UNITED KINGDOM
Indonesia	INDONESIA	LONDON INTL	UNITED KINGDOM
Indonesia SE	INDONESIA	London Plus Mkt	UNITED KINGDOM
Dublin	IRELAND	CBOE	UNITED STATES
Tel Aviv	ISRAEL	Chicago Mercantile	UNITED STATES
BrsaItaliana	ITALY	Nasdaq	UNITED STATES
Milan	ITALY	NASDAQ GM	UNITED STATES
Fukuoka	JAPAN	NASDAQ GS	UNITED STATES
Jasdaq	JAPAN	New York	UNITED STATES
Nagoya	JAPAN	NYSE Amex	UNITED STATES
Osaka	JAPAN	NYSE ARCA	UNITED STATES
Tokyo	JAPAN	OTC Markets	UNITED STATES