

Nasdaq CTA Cybersecurity IndexSM Methodology

Index Description

The Nasdaq CTA Cybersecurity Index is designed to track the performance of companies engaged in the Cybersecurity segment of the technology and industrial sectors. The Index includes companies primarily involved in the building, implementation and management of security protocols applied to private and public networks, computers and mobile devices in order to provide protection of the integrity of data and network operations.

Index Calculation

The Nasdaq CTA Cybersecurity Index is a modified liquidity weighted index. The value of the Index equals the aggregate value of the Index share weights, also known as the Index Shares, of each of the Index Securities multiplied by each such security's Last Sale Price¹, and divided by the divisor of the Index. The divisor serves the purpose of scaling such aggregate value to a lower order of magnitude which is more desirable for reporting purposes. The Index began on June 23, 2015 at a base value of 1,000.00.

The formula for index value is as follows:

$$\text{Aggregate Adjusted Market Value/Divisor}$$

The formula for the divisor is as follows:

$$\text{(Market Value after Adjustments/Market Value before Adjustments) X Divisor before Adjustments}$$

Three versions of the Index are calculated – a price return index, a total return index and a net total return index.

- The price return index (Nasdaq: NQCYBR) is ordinarily calculated without regard to cash dividends on Index Securities.
- The total return index (Nasdaq: NQCYBRT) reinvests cash dividends on the ex-date.
- The net total return index (Nasdaq: NQCYBRN) reinvests cash dividends on the ex-date and adjusts for an Index Security's country of incorporation withholding rate.

All Indexes reflect extraordinary cash distributions.

The Indexes are calculated during the trading day and are disseminated once per second. The Indexes are calculated five (5) days a week, Monday through Friday, starting by the earliest time zone Asia/Tokyo and close by the latest time zone America/New York in USD.

¹ For purposes of this document, Last Sale Price refers to the last regular way trade reported on such security's Index Market. The Index Market is the listing market for which prices are received and used by Nasdaq in the Index calculation and generally will represent the most liquid trading market of the Index Security. If a security does not trade on its Index Market on a given day or the Index Market has not opened for trading, the most recent last sale price from the Index Market (adjusted for corporate actions, if any) is used. For securities where Nasdaq is Index Market, the Last Sale Price may be the Nasdaq Official Closing Price (NOCP) when Nasdaq is closed.

Eligibility

Index eligibility is limited to specific security types only. The security types eligible for the Index include common stocks, ordinary shares, depositary receipts (both American and Global), depositary shares, shares of beneficial interest or limited partnership interests and tracking stocks.

Eligibility Criteria

To be included in the Index, a security must meet the following criteria:

- be classified as a Cybersecurity company as determined by Consumer Technology Association (CTA);
- be listed on an Index-Eligible Global Stock Exchange;
- one security per issuer is permitted²;
- have a minimum worldwide market capitalization of \$250 million;
- have a minimum three-month average daily dollar trading volume of \$1 million;
- have a minimum free float of 20%;
- may not have entered into a definitive agreement or other arrangement which would likely result in the security no longer being Index eligible; and
- may not be issued by an issuer currently in bankruptcy proceedings.

Index-Eligible Global Stock Exchanges

Global stock exchanges are reviewed periodically for eligibility. In general, a global exchange will be deemed ineligible if securities cannot be readily obtained either due to foreign investment restrictions or otherwise.

Index Evaluation

The Index Securities are evaluated semi-annually in March and September. The above Eligibility Criteria are applied using market data through the end of January and July respectively. Securities meeting the criteria are included in the Index. Security additions and deletions are made effective after the close of trading on the third Friday in March and September respectively.

Additionally, if at any time during the year other than the Evaluation, an Index Security no longer meets the Eligibility Criteria, or is otherwise determined to have become ineligible for inclusion in the Index, the security is removed from the Index and is not replaced. In all cases, a security is removed from the Index at its Last Sale Price. If, however, at the time of its removal the Index Security is halted from trading on its primary listing market and an official closing price cannot readily be determined, the Index Security may, in Nasdaq's discretion, be removed at a zero price. The zero price will be applied to the Index Security after the close of the market but prior to the time the official closing value of the Index is disseminated, which is ordinarily 17:16:00 ET.

² If an issuer has multiple securities, the security with the highest dollar trading volume will be selected for possible inclusion into the Index.

Index Maintenance

Index Share changes are not made between Index Evaluations; however, changes arising from stock dividends and stock splits are made to the Index on the evening prior to the effective date of such corporate action. In the case of certain spin-offs or rights issuances, the price of the Index Security is adjusted and a corresponding adjustment is made to the Index Shares such that the weight of the Index Security does not change as a result of the action.

A special cash dividend announced by the listing exchange, will result in an adjustment to the Last Sale Price of an Index Security prior to market open on the ex-date for the special amount distributed. A corresponding adjustment will be made to the Index Shares of the security such that the weight of the Index Security will not change as a result of the action. A special dividend may also be referred to as extra, extraordinary, non-recurring, one-time, unusual, etc.

Ordinarily, whenever there is a change in Index Shares, a change in an Index Security or a change to the price of an Index Security due to spin-offs, rights issuances or special cash dividends as mentioned above, the divisor is adjusted to ensure that there is no discontinuity in the value of the Index which might otherwise be caused by any such change.

Index Rebalancing

The Index employs a modified liquidity weighted methodology. At each quarter, the Index is rebalanced such that maximum weight of any Index Security does not exceed 6% and no more than five (5) securities are at the cap. The excess weight of any capped security is distributed proportionally across the remaining Index Securities. If after redistribution, any of the five (5) highest ranked Index Securities are weighted below 6%, these securities are not capped. Next, any remaining Index Securities in excess of 3% are capped at 3% and the excess weight is redistributed proportionally across the remaining Index Securities. The process is repeated, if necessary, to derive the final weights.

The modified liquidity weighting methodology is applied to the three month average daily dollar trading volume of each Index Security as of the close of trading on the last trading day in February, May, August and November. Index Shares are then calculated by multiplying the weight of the security derived above by the aggregate average daily dollar trading volume and dividing that value for each Index Security by its corresponding Last Sale Price of the security at the close of the last trading day in February, May, August and November. The changes are effective after trading on the third Friday in March, June, September and December.

Nasdaq may, from time to time, exercise reasonable discretion as it deems appropriate in order to ensure Index integrity.

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