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</table>
1 Introduction

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 calculating and maintaining the MVIS® Digital Assets Index family (the “Indexes”). MarketVector Indexes launched this index family mainly in cooperation with Crypto Coin Comparison Ltd. (CryptoCompare).

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® is a registered trademark of Van Eck Associates Corporation and therefore protected against unlawful usage. The use of MVIS® Indexes in connection with any financial products or for benchmarking purposes requires a license. Please contact MarketVector Indexes GmbH for more details.

1.1 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.

1.2 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.
2 INDEX UNIVERSE

2 Index Universe

2.1 Index Universe

The index universe of the MVIS® CryptoCompare index family includes all crypto currencies (excl. security tokens and financial instruments) covered by CryptoCompare in their Crypto Coin Comparison Aggregated Index (‘CCCAGG’). A detailed list of these crypto currencies is available on request.
3 General Definitions

3.1 Weighting Schemes

Most MVIS® CryptoCompare Digital Assets Indexes use cap-factors to guarantee diversification and avoid overweighting. Please refer to the individual index description in section 4 for the capping scheme used. Index weightings are reviewed on a monthly basis.

Weighting Scheme: 50%-Cap

The 50%-cap ensures diversification by assigning weights to components which cannot exceed 50% but still ensures bigger sizes of bigger components. All components are ranked by their market capitalization. The maximum weight for any component is 50%. If a constituent exceeds the maximum weight, the weight will be reduced to the maximum weight and the excess weight shall be redistributed proportionally across all other index components. This process is repeated until no components have weights exceeding the respective maximum weight.

Weighting Scheme: 35%-Cap

The 35%-cap ensures diversification by assigning weights to components which cannot exceed 35% but still ensures bigger sizes of bigger components. All components are ranked by their market capitalization. The maximum weight for any component is 35%. If a constituent exceeds the maximum weight, the weight will be reduced to the maximum weight and the excess weight shall be redistributed proportionally across all other index components. This process is repeated until no components have weights exceeding the respective maximum weight.

Weighting Scheme: 30%-Cap

The 30%-cap ensures diversification by assigning weights to components which cannot exceed 30% but still ensures bigger sizes of bigger components. All components are ranked by their market capitalization. The maximum weight for any component is 30%. If a constituent exceeds the maximum weight, the weight will be reduced to the maximum weight and the excess weight shall be redistributed proportionally across all other index components. This process is repeated until no components have weights exceeding the respective maximum weight.

Weighting Scheme: 15%-Cap

The 15%-cap ensures diversification by assigning weights to components which cannot exceed 15% but still ensures bigger sizes of bigger components. All components are ranked by their market capitalization. The maximum weight for any component is 15%. If a constituent exceeds the maximum weight, the weight will be reduced to the maximum weight and the excess weight shall be redistributed proportionally across all other index components. This process is repeated until no components have weights exceeding the respective maximum weight.

Weighting Scheme: 4.5%/20%/50%-Cap

This weighting scheme ensures diversification by assigning weights to constituents which cannot exceed 20% but still ensures bigger sizes of bigger components.

1. All index components are weighted by their market capitalization.
3 GENERAL DEFINITIONS

2. All components exceeding 4.5% but at least the largest 5 components are grouped together (so called “Large-Weights”) and all other components are grouped together as well (so called “Small-Weights”).

3. The aggregated weighting of the Large-Weights is capped at 50%:
   • Large-Weights: If the aggregated weighting of all components in Large-Weight exceeds 50%, then a capping factor is calculated to bring the weighting down to 50% - at the same time a second capping factor for the Small-Weights is calculated to increase the aggregated weight to 50%. These two factors are then applied to all components in the Large-Weights or the Small-Weights respectively. Then
   • Large-Weights: The maximum weight for any component is 20% and the minimum weighting is 5%. If a component is above the maximum or below the minimum weight, then the weight will be reduced to the maximum weight or increased to the minimum weight and the excess weight shall be redistributed proportionally across all other remaining index constituents in the Large-Weights. Then
   • Small-Weights: The maximum weight for any component is 4.5%. If a component is above the maximum weight, then the weight will be reduced to the maximum weight and the excess weight shall be redistributed proportionally across all other remaining index constituents in the Small-Weights.

Weighting Scheme: Uncapped
An uncapped index reflects the real market capitalization of its components. All components are ranked by their market capitalization without a capping. All weighting cap factors are fixed at 1.

3.2 Review Schedule
All indexes are rebalanced monthly (The “Monthly Rebalance Date”), except for MVDAS, MVLEADV and MVSCLEV (quarterly) and BBR/EBR, which follows a semiannual review scheme. The reviews for all Indexes are based on the opening data on the fourth but last business day in that month. If a security does not trade on a business day, then the last available price for this security will be used. A “business day” means any day (other than a Saturday or Sunday) on which commercial banks and foreign exchange markets settle payments in Frankfurt.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

Indexes are rebalanced after closing of the last trading day in each month.

3.3 Pricing Source
For each component price in the MVIS® CryptoCompare Indexes, the respective CCCAGG by CryptoCompare (www.cryptocompare.com) is used. CCCAGG is a weighted average of the latest available trading price at each exchange covered. Exchanges can be added/removed by decision of CryptoCompare. For clarification, ‘respective CCCAGG’ means
   • Exchange selection might vary dependent on the respective index rules (see respective constraints per index).
3 GENERAL DEFINITIONS

• Exchanges may be excluded if they are not licensed to be added to an index.
• Exchanges are not immediately added/removed, but only on a monthly basis or if required following quality reviews from CryptoCompare.
• Values are not backadjusted.

3.4 Index Dissemination
The Indexes are calculated with the constituent prices converted to USD. Dissemination is in USD.
Real-time index values are calculated with the latest available CCCAGG prices.
4 Indexes

The following sections define all relevant index parameters, this includes:

- Universe and selection lists,
- Review: selections and weightings,
- Dissemination: times, currencies and identifiers.
4.1 MarketVector™ Centralized Exchanges Index

The MarketVector™ Centralized Exchanges Index is designed to track the performance of assets classified as "Centralized Exchanges" by MarketVector Indexes and serve as a benchmark/universe for the respective market. A crypto exchange token is a digital asset that is native to a cryptocurrency exchange. Cryptocurrency exchanges are platforms for buying, selling, and exchanging cryptocurrencies. The weightings are uncapped as described in section 3.1.

Review procedure:
All digital assets with a market capitalization of at least 250,000,000 USD, an average-daily-trading value of at least 10,000,000 USD for the current month and classified as "Centralized Exchanges" by MarketVector Indexes qualify for the index. In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

All qualified digital assets must not carry short term security risks (e.g. 51% attacks).

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MarketVector™ Centralized Exchanges Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOGBL6</td>
<td>BP0V643</td>
<td>SLOGBL</td>
<td>MVCEX</td>
<td>.MVCEX</td>
</tr>
</tbody>
</table>

The index was launched on 01 June 2022 with a base index value of 100.00 as of 28 February 2021.
4 INDEXES

4.2 MVIS® CryptoCompare Digital Assets 5 Index

The MVIS® CryptoCompare Digital Assets 5 Index is designed to track the performance of the largest and most liquid 5 digital assets (with a 3-7 buffer). All assets on the selection list must be listed on at least one of the top 15 exchanges by CryptoCompare’s Exchange Benchmark. The 35% capping scheme as described in section 3.1 is applied.

Review procedure:

1. The selection list contains all current components (which fulfil the listing criteria) with an average-daily-trading value of at least 600,000 USD for the current month. Components of the MVIS® CryptoCompare Digital Assets 100 Index (see section 4.5), which have an average-daily-trading value of at least 1,000,000 USD for the current month, are added to the selection list by size (top to bottom), until a count of 10 is reached. Stablecoins (also called ‘price stable currencies’) which are fiat collateralized and digital assets pegged to a currency or any other asset are not eligible for the selection list. If there are no sufficient non-components which fulfil the liquidity criteria, additional MVIS® CryptoCompare Digital Assets 100 Index components are added to by liquidity (average-daily-trading value for the current month, top to bottom) until it contains 10 digital assets.

2. The selection list is ranked in two different ways - by market capitalization in descending order (the largest constituent receives rank "1") and then by one-month average-daily-trading value in descending order (the most liquid constituent receives rank "1"). These two ranks are added up.

3. The selection list is now ranked by the sum of the two ranks in step 2 in ascending order. If two constituents have the same sum of ranks, then the larger constituent is placed on top.

4. The top 3 digital assets qualify for selection.

5. The remaining 2 components are selected from the highest ranked remaining index components ranked between 4 and 7.

6. If the number of selected components is still below 5, then the highest ranked digital assets are selected until the number of components equals 5.

For all events that result in a deletion from the index, the deleted component will be replaced with the highest ranked non-component at the latest review. The replacement will be added with the same weight as the deleted component. In case of a hard fork, which results in several active lines, rule 5.2.1 applies. If an event causes the number of components to be greater than 5, the smallest components by market capitalization will be removed one day after the increase is effective (when a price and the main net is available), until the number of components is 5 again.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare Digital Assets 5 Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGQM9</td>
<td>BYX86444</td>
<td>A2GGQM</td>
<td>MVDA5</td>
<td>.MVDA5</td>
</tr>
</tbody>
</table>
The index was launched on 23 October 2017 with a base index value of 100.00 as of 31 December 2014.
4 INDEXES

4.3 MVIS® CryptoCompare Digital Assets 10 Index

The MVIS® CryptoCompare Digital Assets 10 Index is designed to track the performance of the largest and most liquid 10 digital assets (with a 7-13 buffer). All assets on the selection list must be listed on at least one of the top 15 exchanges by CryptoCompare’s Exchange Benchmark. The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

1. The selection list contains all current components (which fulfil the listing criteria) with an average-daily-trading value of at least 600,000 USD for the current month. Components of the MVIS® CryptoCompare Digital Assets 100 Index (see section 4.5), which have an average-daily-trading value of at least 1,000,000 USD for the current month, are added to the selection list by size (top to bottom), until a count of 20 is reached. Stablecoins (also called ‘price stable currencies’) which are fiat collateralized and digital assets pegged to a currency or any other asset are not eligible for the selection list. If there are no sufficient non-components which fulfil the liquidity criteria, additional MVIS® CryptoCompare Digital Assets 100 Index components are added to list by liquidity (average-daily-trading value for the current month, top to bottom) until it contains 20 digital assets.

2. The selection list is ranked in two different ways - by market capitalization in descending order (the largest constituent receives rank “1”) and then by one-month average-daily-trading value in descending order (the most liquid constituent receives rank “1”). These two ranks are added up.

3. The selection list is now ranked by the sum of the two ranks in step 2 in ascending order. If two constituents have the same sum of ranks, then the larger constituent is placed on top.

4. The top 7 digital assets qualify for selection.

5. The remaining 3 components are selected from the highest ranked remaining index components ranked between 8 and 13.

6. If the number of selected components is still below 10, then the highest ranked digital assets are selected until the number of components equals 10.

For all events that result in a deletion from the index, the deleted component will be replaced with the highest ranked non-component at the latest review. The replacement will be added with the same weight as the deleted component. In case of a hard fork, which results in several active lines, rule 5.2.1 applies. If an event causes the number of components to be greater than 10, the smallest components by market capitalization will be removed one day after the increase is effective (when a price and the main net is available), until the number of components is 10 again.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare Digital Assets 10 Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGQF3</td>
<td>BYX85Y7</td>
<td>A2GGQF</td>
<td>MVDA10</td>
<td>.MVDA10</td>
</tr>
</tbody>
</table>
The index was launched on 23 October 2017 with a base index value of 100.00 as of 31 December 2014.
4.4 MVIS® CryptoCompare Digital Assets 25 Index

The MVIS® CryptoCompare Digital Assets 25 Index is designed to track the performance of the largest and most liquid 25 digital assets (with a 20-30 buffer). All assets on the selection list must be listed on at least one of the top 15 exchanges by CryptoCompare’s Exchange Benchmark. The 4.5%/20%/50% capping scheme as described in section 3.1 is applied.

Review procedure:

1. The selection list contains all current components (which fulfil the listing criteria) with an average-daily-trading value of at least 600,000 USD for the current month. Components of the MVIS® CryptoCompare Digital Assets 100 Index (see section 4.5), which have an average-daily-trading value of at least 1,000,000 USD for the current month, are added to the selection list by size (top to bottom), until a count of 50 is reached. Stablecoins (also called ‘price stable currencies’) which are fiat collateralized and digital assets pegged to a currency or any other asset are not eligible for the selection list. If there are no sufficient non-components which fulfil the liquidity criteria, additional MVIS® CryptoCompare Digital Assets 100 Index components are added to list by liquidity (average-daily-trading value for the current month, top to bottom) until it contains 50 digital assets.

2. The selection list is ranked in two different ways - by market capitalization in descending order (the largest constituent receives rank “1”) and then by one-month average-daily-trading value in descending order (the most liquid constituent receives rank “1”). These two ranks are added up.

3. The selection list is now ranked by the sum of the two ranks in step 2 in ascending order. If two constituents have the same sum of ranks, then the larger constituent is placed on top.

4. The top 20 digital assets qualify for selection.

5. The remaining 5 components are selected from the highest ranked remaining index components ranked between 21 and 30.

6. If the number of selected components is still below 25, then the highest ranked digital assets are selected until the number of components equals 25.

For all events that result in a deletion from the index, the deleted component will be replaced with the highest ranked non-component at the latest review. The replacement will be added with the same weight as the deleted component. In case of a hard fork, which results in several active lines, rule 5.2.1 applies. If an event causes the number of components to be greater than 25, the smallest components by market capitalization will be removed one day after the increase is effective (when a price and the main net is available), until the number of components is 25 again.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare Digital Assets 25 Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGQ11</td>
<td>BYX8633</td>
<td>A2GGQQL</td>
<td>MVDA25</td>
<td>.MVDA25</td>
</tr>
</tbody>
</table>
The index was launched on 23 October 2017 with a base index value of 100.00 as of 31 December 2014.
4.5 MVIS® CryptoCompare Digital Assets 100 Index

The MVIS® CryptoCompare Digital Assets 100 Index is designed to track the performance of the largest 100 digital assets (with an 80-120 buffer) and serve as a benchmark/universe for the market. The weightings are uncapped as described in section 3.1.

Review procedure:

1. The selection list is defined as all digital assets with an average-daily-trading value of at least 1,000,000 USD for the current month, and current components with an average-daily-trading value of at least 600,000 USD. It is sorted in terms of market capitalization in descending order.
2. The top 80 digital assets qualify for selection.
3. The remaining 20 components are selected from the highest ranked remaining index components ranked between 81 and 120.
4. If the number of selected components is still below 100, then the highest ranked digital assets are selected until the number of components equals 100.

From this composite index (MVDA), three sub-indexes are derived by size:

- A Large-Cap Index (MVDALC) with 20 components and a 15-25 buffer within the composite:
  1. The top 15 digital assets qualify for selection.
  2. The remaining 5 components are selected from the highest ranked remaining index components ranked between 16 and 25.
  3. If the number of selected components is still below 20, then the highest ranked digital assets are selected until the number of components equals 20.

- A Mid-Cap Index (MVDAMC) with 30 components and a 15-25 upper and a 40-60 lower buffer within the composite:
  1. The top 20 digital assets, which did not qualify for the Large-Cap Index, qualify for selection.
  2. The remaining 10 components are selected from the highest ranked remaining index components and current large-cap components ranked between 41 and 60.
  3. If the number of selected components is still below 30, then the highest ranked digital assets, which are not reclassified as large-caps, are selected until the number of components equals 30.

- A Small-Cap Index (MVDASC) with 50 components and a 40-60 buffer within the composite:
  1. All components of the composite index, which did neither qualify for the Large-Cap nor the Mid-Cap index, qualify for selection.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. For all events that result in a component number not being equal to 100, the index will be set back to 100 components at the next review.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at
17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare Digital Assets 100 Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGGQG1</td>
<td>BYX85Z8</td>
<td>A2GGGQG</td>
<td>MVDA</td>
<td>.MVDA</td>
</tr>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGGQH9</td>
<td>BYX8600</td>
<td>A2GGGQH</td>
<td>MVDALC</td>
<td>.MVDALC</td>
</tr>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGGQJ5</td>
<td>BYX8611</td>
<td>A2GGGQJ</td>
<td>MVDAMC</td>
<td>.MVDAMC</td>
</tr>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGGQK3</td>
<td>BYX8622</td>
<td>A2GGGQK</td>
<td>MVDASC</td>
<td>.MVDASC</td>
</tr>
</tbody>
</table>

The indexes were launched on 23 October 2017 with a base index value of 100.00 as of 31 December 2014.
4.6 MVIS® CryptoCompare Digital Assets Select Index

The MVIS® CryptoCompare Digital Assets Select Index is designed to track the performance of the largest and most liquid 10 digital assets (with a 7-13 buffer). All assets on the selection list must be listed on at least one of the top 15 exchanges by CryptoCompare’s Exchange Benchmark. Meme tokens are excluded from the index according to the meme token list provided by CoinGecko. The uncapped weighting scheme as described in section 3.1 is applied.

Review procedure:

1. The selection list contains all digital assets that are screened in accordance with the custodian specifications applicable to the client. The current components (which fulfill the listing criteria) with an average-daily-trading value of at least 600,000 USD for the current month. The non-current components, which have an average-daily-trading value of at least 1,000,000 USD for the current month, are added to the selection list by size (top to bottom), until a count of 20 is reached. Stablecoins (also called ‘price stable currencies’) which are fiat collateralized and digital assets pegged to a currency or any other asset are not eligible for the selection list. If there are no sufficient non-components which fulfill the liquidity criteria, additional MVIS® CryptoCompare Digital Assets 100 Index components are added to list by liquidity (average-daily-trading value for the current month, top to bottom) until it contains 20 digital assets.

2. The selection list is ranked in two different ways - by market capitalization in descending order (the largest constituent receives rank “1”) and then by one-month average-daily-trading value in descending order (the most liquid constituent receives rank “1”). These two ranks are added up.

3. The selection list is now ranked by the sum of the two ranks in step 2 in ascending order. If two constituents have the same sum of ranks, then the larger constituent is placed on top.

4. The top 7 digital assets qualify for selection.

5. The remaining 3 components are selected from the highest ranked remaining index components ranked between 8 and 13.

6. If the number of selected components is still below 10, then the highest ranked digital assets are selected until the number of components equals 10.

For all events that result in a deletion from the index, the deleted component will be replaced with the highest ranked non-component at the latest review. The replacement will be added with its uncapped weight to the index. In case of a hard fork, which results in several active lines, rule 5.2.1 applies. If an event causes the number of components to be greater than 10, the smallest components by market capitalization will be removed one day after the increase is effective (when a price and the main net is available), until the number of components is 10 again.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 ET with fixed 16:00 ET exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The index is rebalanced on a quarterly basis at 16:00:00 ET of the last business day of February, May, August and November. For this index, a “business day” for the purposes of the rebalance means any...
day (other than a Saturday or Sunday) on which commercial banks and foreign exchange markets settle payments in New York.

The MVIS® CryptoCompare Digital Assets Select Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFCF8</td>
<td>BPLFDX2</td>
<td>SLOFCF</td>
<td>MVDAS</td>
<td>.MVDAS</td>
</tr>
</tbody>
</table>

The index was launched on 18 February 2022 with a base index value of 100.00 as of 31 December 2017.
4.7 MVIS® CryptoCompare Crypto Leaders VWAP Close Index

The MVIS® CryptoCompare Crypto Leaders VWAP Close Index is designed to track the performance of the largest and most liquid digital assets. All assets must be listed on at least one of the top 15 exchanges by CryptoCompare’s Exchange Benchmark and are screened for investibility. The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

The index universe is defined as the components of the MVIS® CryptoCompare Digital Assets 10 Index (MVDA10). The components of the MVDA10 are screened in accordance with the custodian specifications applicable to the client and the approvals by the relevant stock exchanges. (The index does not include crypto assets that are not accepted by the Swiss Stock Exchange (SIX) and Deutsche Börse AG as an underlying.) Information is provided by the respective 3rd party partners of the client. All constituents of the MVDA10 which pass these screens qualify as index components.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The components of this index are reviewed on a quarterly basis and rebalanced at 16:00:00 CET of the last trading day of February, May, August and November.

The MVIS® CryptoCompare Crypto Leaders VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0EAN9</td>
<td>BMHYR29</td>
<td>SL0EAN</td>
<td>MVLEADV</td>
<td>.MVLEADV</td>
</tr>
</tbody>
</table>

The index was launched on 7 December 2021 with a base index value of 100.00 as of 31 December 2018.
4.8 MVIS® CryptoCompare Decentralized Finance Index

The MVIS® CryptoCompare Decentralized Finance Index is designed to track the performance of assets classified as "decentralized finance" by MarketVector Indexes and serve as a benchmark/universe for the respective market. This covers financial services built on top of distributed networks with no central intermediaries. The weightings are uncapped as described in section 3.1.

Review procedure:
All digital assets with a market capitalization of at least 250,000,000 USD, an average-daily-trading value of at least 10,000,000 USD for the current month and classified as "decentralized finance" by MarketVector Indexes qualify for the index. In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

All qualified digital assets must not carry short term security risks (e.g. 51% attacks).

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Decentralized Finance Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOD7T5</td>
<td>BPG67B</td>
<td>SLOD7T</td>
<td>MVDF</td>
<td>.MVDF</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 January 2021.
4.9 MVIS® CryptoCompare Decentralized Finance Leaders Index

The MVIS® CryptoCompare Decentralized Finance Leaders Index is designed to track the performance of the largest and most liquid decentralized finance assets, and is an investable subset of MVIS CryptoCompare Decentralized Finance Index (see section 4.8). The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

Current components, which fulfil the listing criteria, qualify for the index with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Decentralized Finance Index (see section 4.8) qualify for the index with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Owner.

In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Decentralized Finance Leaders Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D7U3</td>
<td>BFG67C7</td>
<td>SL0D7U</td>
<td>MVDFLE</td>
<td>.MVDFLE</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 January 2021.
4.10 MVIS® CryptoCompare DeFi 20 Index

The MVIS® CryptoCompare DeFi 20 Index is designed to track the performance of the largest and most liquid 20 DeFi related digital assets (with a 15-25 buffer), as defined by the DeFi ecosystem list published by CryptoCompare on their website. The 15% capping scheme as described in section 3.1 is applied.

Review procedure:

1. The selection list contains all current components (if still considered as DeFi ecosystem by CryptoCompare) with an average-daily-trading value of at least 600,000 USD for the current month. Additional DeFi protocols, which have an average-daily-trading value of at least 1,000,000 USD for the current month, are added to the selection list by size (top to bottom), until a count of 40 is reached. Stablecoins (also called ‘price stable currencies’) which are fiat collateralized and digital assets pegged to a currency or any other asset are not eligible for the selection list. If there are no sufficient non-components which fulfil the liquidity criteria, additional DeFi protocols are added to list by liquidity (average-daily-trading value for the current month, top to bottom) until it contains 40 digital assets.

2. The selection list is ranked in two different ways - by market capitalization in descending order (the largest constituent receives rank “1”) and then by one-month average-daily-trading value in descending order (the most liquid constituent receives rank “1”). These two ranks are added up.

3. The selection list is now ranked by the sum of the two ranks in step 2 in ascending order. If two constituents have the same sum of ranks, then the larger constituent is placed on top.

4. The top 15 digital assets qualify for selection.

5. The remaining 5 components are selected from the highest ranked remaining index components ranked between 16 and 25.

6. If the number of selected components is still below 20, then the highest ranked digital assets are selected until the number of components equals 20.

For all events that result in a deletion from the index, the deleted component will be replaced with the highest ranked non-component at the latest review. The replacement will be added with the same weight as the deleted component. In case of a hard fork, which results in several active lines, rule 5.2.1 applies. If an event causes the number of components to be greater than 20, the smallest components by market capitalization will be removed one day after the increase is effective (when a price and the main net is available), until the number of components is 20 again.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare DeFi 20 Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOCHQ1</td>
<td>BMD6BT4</td>
<td>SLOCHQ</td>
<td>MVDEFI</td>
<td>.MVDEFI</td>
</tr>
</tbody>
</table>

The index was launched on 19 April 2021 with a base index value of 100.00 as of 30 June 2020.
4 INDEXES

4.11 MVIS® CryptoCompare Infrastructure Application Index

The MVIS® CryptoCompare Infrastructure Application Index is designed to track the performance of assets classified as "infrastructure application" by MarketVector Indexes and serve as a benchmark/universe for the respective market. This covers decentralized computer programs designed to perform specific tasks. The weightings are uncapped as described in section 3.1.

Review procedure:
All digital assets with a market capitalization of at least 250,000,000 USD, an average-daily-trading value of at least 10,000,000 USD for the current month and classified as "infrastructure application" by MarketVector Indexes qualify for the index. In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

All qualified digital assets must not carry short term security risks (e.g. 51% attacks).

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Infrastructure Application Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D7V1</td>
<td>BPG67D8</td>
<td>SL0D7V</td>
<td>MVIAP</td>
<td>.MVIAP</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 December 2020.
4.12 MVIS® CryptoCompare Infrastructure Application Leaders Index

The MVIS® CryptoCompare Infrastructure Application Leaders Index is designed to track the performance of the largest and most liquid infrastructure application assets, and is an investable subset of MVIS® CryptoCompare Infrastructure Application Index (see section 4.11). The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

Current components, which fulfill the listing criteria, qualify for the index with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Infrastructure Application Index (see section 4.11) qualify for the index with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Owner.

In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Infrastructure Application Leaders Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D7W9</td>
<td>BPG67F0</td>
<td>SL0D7W</td>
<td>MVIALE</td>
<td>.MVIALE</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 December 2020.
4.13 MVIS® CryptoCompare Media & Entertainment Index

The MVIS® CryptoCompare Media and Entertainment Index is designed to track the performance of assets classified as "media & entertainment" by MarketVector Indexes and serve as a benchmark/universe for the respective market. This covers coins used to reward users for content, games, gambling or social media. The weightings are uncapped as described in section 3.1.

Review procedure:
All digital assets with a market capitalization of at least 250,000,000 USD, an average-daily-trading value of at least 10,000,000 USD for the current month and classified as "media & entertainment" by MarketVector Indexes qualify for the index. In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner's decision until the number of constituents equals 5.

All qualified digital assets must not carry short term security risks (e.g. 51% attacks).

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Media and Entertainment Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D7X7</td>
<td>BPG67G1</td>
<td>SL0D7X</td>
<td>MVME</td>
<td>.MVME</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 March 2021.
4.14 MVIS® CryptoCompare Media & Entertainment Leaders Index

The MVIS® CryptoCompare Media and Entertainment Leaders Index is designed to track the performance of the largest and most liquid media & entertainment assets, and is an investable subset of MVIS® CryptoCompare Media & Entertainment Index (see section 4.13). The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

Current components, which fulfil the listing criteria, qualify for the index with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Media & Entertainment Index (see section 4.13) qualify for the index with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Owner.

In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Media and Entertainment Leaders Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D7Y5</td>
<td>BPG67H2</td>
<td>SL0D7Y</td>
<td>MVMELE</td>
<td>.MVMELE</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 March 2021.
4.15 MVIS® CryptoCompare Media & Entertainment Leaders Brazil Index

The MVIS® CryptoCompare Media and Entertainment Leaders Brazil Index is designed to track the performance of the largest and most liquid media & entertainment assets, and is an investable subset of MVIS® CryptoCompare Media & Entertainment Index (see section 4.13). The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

Current components, which fulfil the listing criteria, qualify for the index with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Media & Entertainment Index (see section 4.13) qualify for the index with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Client.

In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 ET with fixed 16:00 ET exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 ET of the last business day in Brazil in each month.

The MVIS® CryptoCompare Media and Entertainment Leaders Brazil Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFEM0</td>
<td>BPSJL6G</td>
<td>SLOFEM</td>
<td>MVMEBR</td>
<td>.MVMEBR</td>
</tr>
</tbody>
</table>

The index was launched on 03 March 2022 with a base index value of 100.00 as of 31 March 2021.
4.16 MVIS® CryptoCompare Optimum Global Cryptoasset Index

The MVIS® CryptoCompare Optimum Global Cryptoasset Index is designed to track the performance of a fixed list of digital assets. The index includes the following digital assets:

<table>
<thead>
<tr>
<th>Crypto-Asset</th>
<th>Ticker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitcoin</td>
<td>BTC</td>
</tr>
<tr>
<td>Ethereum</td>
<td>ETH</td>
</tr>
<tr>
<td>Polkadot</td>
<td>DOT</td>
</tr>
<tr>
<td>Solana</td>
<td>SOL</td>
</tr>
<tr>
<td>Avalanche</td>
<td>AVAX</td>
</tr>
<tr>
<td>Cardano</td>
<td>ADA</td>
</tr>
<tr>
<td>Polygon</td>
<td>MATIC</td>
</tr>
<tr>
<td>Tezos</td>
<td>XTZ</td>
</tr>
<tr>
<td>Stellar</td>
<td>XLM</td>
</tr>
<tr>
<td>Algorand</td>
<td>ALGO</td>
</tr>
<tr>
<td>ChainLink</td>
<td>LINK</td>
</tr>
</tbody>
</table>

A special capping scheme is applied for this index: At each rebalance, Bitcoin weight is fixed at 40%, Ethereum weight is fixed at 25% and the rest weight is distributed among all other components on a proportional basis based on market capitalization.

The index universe includes the following exchanges:

- Binance,
- Bitflyer,
- Bitstamp,
- Coinbase,
- Gemini,
- itBit,
- Kraken.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (ET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 ET with fixed 16:00 ET exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The Index is rebalanced at 16:00:00 ET of the last business day of each month. For this index, a “business day” for the purposes of the rebalance means any day (other than a Saturday or Sunday) on which commercial banks and foreign exchange markets settle payments in Toronto.

The MVIS® CryptoCompare Optimum Global Cryptoasset Index has the following identifiers:
<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFCU7</td>
<td>BPLFDY3</td>
<td>SLOFCU</td>
<td>MVGCFI</td>
<td>.MVGCFI</td>
</tr>
</tbody>
</table>

The index was launched on 18 February 2022 with a base index value of 100.00 as of 31 December 2020.
4.17 MVIS® CryptoCompare Smart Contract Index

The MVIS® CryptoCompare Smart Contract Index is designed to track the performance of assets classified as "smart contract" by MarketVector Indexes and serve as a benchmark/universe for the respective market. This covers blockchain protocols designed to host variety of self-developed and 3rd party applications. The weightings are uncapped as described in section 3.1.

Review procedure:
All digital assets with a market capitalization of at least 250,000,000 USD, an average-daily-trading value of at least 10,000,000 USD for the current month and classified as "smart contract" by MarketVector Indexes qualify for the index. In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner's decision until the number of constituents equals 5.

All qualified digital assets must not carry short term security risks (e.g. 51% attacks).

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Smart Contract Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D7Z2</td>
<td>BPG67J4</td>
<td>SL0D7Z</td>
<td>MVSC</td>
<td>.MVSC</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 December 2017.
4.18 MVIS® CryptoCompare Smart Contract Leaders Index

The MVIS® CryptoCompare Smart Contract Leaders Index is designed to track the performance of the largest and most liquid smart contract assets, and is an investable subset of MVIS® CryptoCompare Smart Contract Index (see section 4.17). The 30% capping scheme as described in section 3.1 is applied.

Review procedure:

Current components, which fulfil the listing criteria, qualify for the index with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Smart Contract Index (see section 4.17) qualify for the index with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Owner.

In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS® CryptoCompare Smart Contract Leaders Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0D703</td>
<td>BFG67K5</td>
<td>SL0D70</td>
<td>MVSCLE</td>
<td>.MVSCLE</td>
</tr>
</tbody>
</table>

The index was launched on 8 October 2021 with a base index value of 100.00 as of 31 December 2017.
4.19  **MVIS® CryptoCompare Smart Contract Leaders Brazil Index**

The MVIS® CryptoCompare Smart Contract Leaders Brazil Index is designed to track the performance of the largest and most liquid smart contract assets, and is an investable subset of MVIS® CryptoCompare Smart Contract Index (see section 4.17). The 30% capping scheme as described in section 3.1 is applied.

**Review procedure:**

Current components, which fulfill the listing criteria, qualify for the index with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Smart Contract Index (see section 4.17) qualify for the index with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Client.

In case the number of eligible DAs is below 5, additional DAs are added by the Index Owner’s decision until the number of constituents equals 5.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 ET with fixed 16:00 ET exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 ET of the last business day in Brazil in each month.

The MVIS® CryptoCompare Smart Contract Leaders Brazil Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFEN8</td>
<td>BPSJLH7</td>
<td>SLOFEN</td>
<td>MVSCBR</td>
<td>.MVSCBR</td>
</tr>
</tbody>
</table>

The index was launched on 03 March 2022 with a base index value of 100.00 as of 31 December 2017.
4.20 MVIS® CryptoCompare Smart Contract Leaders VWAP Close Index

The MVIS® CryptoCompare Smart Contract Leaders VWAP Close Index is designed to track the performance of the largest and most liquid smart contract assets, and is an investable subset of MVIS® CryptoCompare Smart Contract Index (see section 4.17). All assets on the selection list must be listed on at least one of the top 15 exchanges by CryptoCompare’s Exchange Benchmark. The 30% capping scheme as described in section 3.1 is applied.

The components of the MVIS® CryptoCompare Smart Contract Index (see section 4.17) are screened in accordance with the custodian specifications applicable to the client and the index does not include crypto assets that are not accepted by Deutsche Börse AG as an underlying. Information is provided by the respective 3rd party partners of the client.

Current components, which fulfill the listing criteria, qualify for the selection list with:

- a market capitalization of at least 800,000,000 USD,
- an average daily-trading value of at least 20,000,000 USD.

Components of the MVIS® CryptoCompare Smart Contract Index qualify for the selection list with:

- a market capitalization of at least 1,000,000,000 USD,
- an average-daily-trading value of at least 25,000,000 USD,
- Approved availability of custodians by the Index Owner.

Review procedure:

1. The selection list contains all current components and components of the MVIS® CryptoCompare Smart Contract Index (see section 4.17), which fulfill listing criteria as described above. Stablecoins (also called ‘price stable currencies’) which are fiat collateralized and digital assets pegged to a currency or any other asset are not eligible for the selection list. If there are no sufficient non-components which fulfill the custodian specifications, market capitalization and liquidity criteria, then only the components that fulfill these criteria will be considered.

2. The selection list is ranked by market capitalization in descending order (the largest constituent receives rank “1”).

3. The top 7 digital assets qualify for selection.

4. The remaining 3 components are selected from the highest ranked remaining index components ranked between 8 and 13.

5. If the number of selected components is below 10, then the highest ranked digital assets are selected until the number of components equals 10. If there are no sufficient non-components which fulfill the custodian specifications, market capitalization and liquidity criteria, then only the components that fulfill these criteria will be considered. In this case, number of components can be less than 10.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.
The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The components of this index are reviewed on a quarterly basis and rebalanced at 16:00:00 CET of the last trading day of February, May, August and November.

The MVIS® CryptoCompare Smart Contract Leaders VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFCY9</td>
<td>BPLFDZ4</td>
<td>SLOFCY</td>
<td>MVSCLEV</td>
<td>.MVSCLEV</td>
</tr>
</tbody>
</table>

The index was launched on 07 March 2022 with a base index value of 100.00 as of 31 December 2018.
4.21 MarketVector™ Coinbase Bitcoin Benchmark Rate

The MarketVector™ Coinbase Bitcoin Benchmark Rate is designed to be a robust price for Bitcoin in USD traded in the exchange Coinbase. There is no component other than Bitcoin in the index and no other exchange is included other than Coinbase.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies. In the unlikely event a spun-off coin is larger than Bitcoin (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 London time (BST/GMT) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 London time (BST/GMT) with fixed 16:00 London time (BST/GMT) exchange rates.

The MarketVector™ Coinbase Bitcoin Benchmark Rate has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOF971</td>
<td>BN1TB18</td>
<td>SLOF97</td>
<td>CBBR</td>
<td>.CBBR</td>
</tr>
</tbody>
</table>

The index was launched on 16 May 2022 with a base index value of 425.31 as of 31 December 2015.
4.22 MarketVector™ Coinbase Ethereum Benchmark Rate

The MarketVector™ Coinbase Ethereum Benchmark Rate is designed to be a robust price for Ethereum in USD traded in the exchange Coinbase. There is no component other than Ethereum in the index and no other exchange is included other than Coinbase.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

In the unlikely event a spun-off coin is larger than Ethereum (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 London time (BST/GMT) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 London time (BST/GMT) with fixed 16:00 London time (BST/GMT) exchange rates.

The MarketVector™ Coinbase Ethereum Benchmark Rate has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOGAV7</td>
<td>BMH6394</td>
<td>SLOGAV</td>
<td>CETBR</td>
<td>.CETBR</td>
</tr>
</tbody>
</table>

The index was launched on 16 May 2022 with a base index value of 724.49 as of 31 December 2017.
4.23 MVIS® CryptoCompare Algorand VWAP Close Index

The MVIS® CryptoCompare Algorand VWAP Close Index is designed to track the performance of a Algorand digital asset. There is no component other than Algorand in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Algorand (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Algorand VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOEYV2</td>
<td>BNZHQL9</td>
<td>SLOEYV</td>
<td>MVALGOV</td>
<td>.MVALGOV</td>
</tr>
</tbody>
</table>

The index was launched on 22 December 2021 with a base index value of 100.00 as of 30 June 2019.
4.24 MVIS® CryptoCompare Avalanche VWAP Close Index

The MVIS® CryptoCompare Avalanche VWAP Close Index is designed to track the performance of an Avalanche digital asset. There is no component other than Avalanche in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Avalanche (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Avalanche VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOD976</td>
<td>BLH3DH6</td>
<td>SLOD97</td>
<td>MVAVAXV</td>
<td>.MVAVAXV</td>
</tr>
</tbody>
</table>

The index was launched on 18 November 2021 with a base index value of 10.00 as of 30 September 2020.
4.25 MVIS® CryptoCompare Bitcoin Index

The MVIS® CryptoCompare Bitcoin Index is designed to track the performance of a Bitcoin digital asset. There is no component other than Bitcoin in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Bitcoin (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare Bitcoin Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGQD8</td>
<td>BYX85W5</td>
<td>A2GGQD</td>
<td>MVBTC</td>
<td>.MVBTC</td>
</tr>
</tbody>
</table>

The index was launched on 23 October 2017 with a base index value of 10.00 as of 31 January 2012.
4.26 MVIS® CryptoCompare Bitcoin VWAP Close Index

The MVIS® CryptoCompare Bitcoin VWAP Close Index is designed to track the performance of a Bitcoin digital asset. There is no component other than Bitcoin in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Bitcoin (by market capitalization) and in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Bitcoin VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOBER8</td>
<td>BLD0Z19</td>
<td>SLOBER</td>
<td>MVBTCV</td>
<td>.MVBTCV</td>
</tr>
</tbody>
</table>

The index was launched on 06 August 2020 with a base index value of 100.00 as of 31 December 2014.
4.27 MVIS® CryptoCompare Bitcoin Benchmark Rate

The MVIS® CryptoCompare Bitcoin Benchmark Rate is designed to be a robust price for Bitcoin in USD (see section 6.1.2). There is no component other than Bitcoin in the index.

Review procedure (for eligible exchanges with USD pair/agreement):

- If an eligible exchange is in the top 5 by rank based on the CryptoCompare Exchange Benchmark table for two consecutive semiannual reviews, it replaces the lowest ranked exchange.
- If an eligible exchange is downgraded by two or more notches in a semiannual review and is not in the top 5 by rank anymore, it is replaced by the highest ranked non-component exchange.

Adjustments to exchange coverage will be announced four business days prior to the first business day of June/December at 23:00 CET; the indexes are rebalanced at 16:00:00 ET on the last business day of May/November.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies. In the unlikely event a spun-off coin is larger than Bitcoin (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (ET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 ET with fixed 16:00 ET exchange rates.

The MVIS® CryptoCompare Bitcoin Benchmark Rate has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOA0E5</td>
<td>BMFXWZ6</td>
<td>SLOAOE</td>
<td>BBR</td>
<td>.BBR</td>
</tr>
</tbody>
</table>

The index was launched on 3 June 2020 with a base index value of 425.53 as of 31 December 2015. The list below summarises the exchange composition up to the launch.

- Bitstamp,
- Coinbase,
- Gemini,
- itBit,
- Kraken.
4.28 MVIS® CryptoCompare Global Bitcoin Benchmark Rate (AUD)

The MVIS® CryptoCompare Global Bitcoin Benchmark Rate (AUD) is designed to be a robust price for Bitcoin in AUD. There is no component other than Bitcoin in the index. All exchanges covered by CryptoCompare’s CCCAGG and Gemini (USD pair) are included. Gemini has been included from 19 November 2021.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies. In the unlikely event a spun-off coin is larger than Bitcoin (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds (with AUD/USD exchange rate updated minute-by-minute). The index is calculated and disseminated in AUD and the closing value is calculated at 16:00:00 AET with fixed 16:00 AET exchange rates.

The MVIS® CryptoCompare Global Bitcoin Benchmark Rate (AUD) has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOEAE8</td>
<td>BMFV669</td>
<td>SLOEAE</td>
<td>GBBRA</td>
<td>.GBBRA</td>
</tr>
</tbody>
</table>

The index was launched on 23 November 2021 with a base index value of 5311.64 as of 31 December 2018.
4.29 MVIS® CryptoCompare Chainlink VWAP Close Index

The MVIS® CryptoCompare Chainlink VWAP Close Index is designed to track the performance of a Chainlink digital asset. There is no component other than Chainlink in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Terra (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Chainlink VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFCZ6</td>
<td>BPLFF03</td>
<td>SLOFCZ</td>
<td>.MVLINKV</td>
<td>.MVLINKV</td>
</tr>
</tbody>
</table>

The index was launched on 07 March 2022 with a base index value of 100.00 as of 31 October 2019.
4.30 MVIS® CryptoCompare Ethereum Index

The MVIS® CryptoCompare Ethereum Index is designed to track the performance of an Ethereum digital asset. There is no component other than Ethereum in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Ethereum (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The Index is rebalanced at 17:00:00 GMT of the last trading day of each month.

The MVIS® CryptoCompare Ethereum Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGQP2</td>
<td>BYX8666</td>
<td>A2GGQP</td>
<td>MVETH</td>
<td>.MVETH</td>
</tr>
</tbody>
</table>

The index was launched on 23 October 2017 with a base index value of 10.00 as of 31 August 2015.
4.31 MVIS® CryptoCompare Ethereum VWAP Close Index

The MVIS® CryptoCompare Ethereum VWAP Close Index is designed to track the performance of an Ethereum digital asset. There is no component other than Ethereum in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Ethereum (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Ethereum VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOCAC6</td>
<td>BN6HR93</td>
<td>SLOCAC</td>
<td>MVETHV</td>
<td>.MVETHV</td>
</tr>
</tbody>
</table>

The index was launched on 13 January 2021 with a base index value of 10.00 as of 31 December 2015.
4.32 MVIS® CryptoCompare Ethereum Benchmark Rate

The MVIS® CryptoCompare Ethereum Benchmark Rate is designed to be a robust price for Ethereum in USD (see section 6.1.2). There is no component other than Ethereum in the index.

Review procedure (for eligible exchanges with USD pair/agreement):

- If an eligible exchange is in the top 5 by rank based on the CryptoCompare Exchange Benchmark table for two consecutive semiannual reviews, it replaces the lowest ranked exchange.
- If an eligible exchange is downgraded by two or more notches in a semiannual review and is not in the top 5 by rank anymore, it is replaced by the highest ranked non-component exchange.

Adjustments to exchange coverage will be announced four business days prior to the first business day of June/December at 23:00 CET; the indexes are rebalanced at 16:00:00 ET on the last business day of May/November.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

In the unlikely event a spun-off coin is larger than Ethereum (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (ET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 ET with fixed 16:00 ET exchange rates.

The MVIS® CryptoCompare Ethereum Benchmark Rate has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOC7Q2</td>
<td>BNTJBB6</td>
<td>SLOC7Q</td>
<td>EBR</td>
<td>.EBR</td>
</tr>
</tbody>
</table>

The index was launched on 24 March 2021 with a base index value of 745.36 as of 31 December 2017. The list below summarises the exchange composition up to the launch.

- Bitstamp,
- Coinbase,
- Gemini,
- itBit,
- Kraken.
4.33 MVIS® CryptoCompare Global Ethereum Benchmark Rate (AUD)

The MVIS® CryptoCompare Global Ethereum Benchmark Rate (AUD) is designed to be a robust price for Ethereum in AUD. There is no component other than Ethereum in the index. All exchanges covered by CryptoCompare’s CCCAGG and Gemini (USD pair) are included. Gemini has been included from 19 November 2021.

In case of a hard fork, which results in several active lines, rule 5.2.2 applies.

In the unlikely event a spun-off coin is larger than Ethereum (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds (with AUD/USD exchange rate updated minute-by-minute). The index is calculated and disseminated in AUD and the closing value is calculated at 16:00:00 AET with fixed 16:00 AET exchange rates.

The MVIS® CryptoCompare Global Ethereum Benchmark Rate (AUD) has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0EAF5</td>
<td>BMFV692</td>
<td>SL0EAF</td>
<td>GEBRA</td>
<td>.GEBRA</td>
</tr>
</tbody>
</table>

The index was launched on 23 November 2021 with a base index value of 191.77 as of 31 December 2018.
4.34 MVIS® CryptoCompare FTX Token VWAP Close Index

The MVIS® CryptoCompare FTX Token VWAP Close Index is designed to track the performance of the FTX Token digital asset. There is no component other than the FTX Token in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than the FTX Token (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare FTX Token VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOEYW0</td>
<td>BNZHQN1</td>
<td>SLOEYW</td>
<td>MVFTTV</td>
<td>.MVFTTV</td>
</tr>
</tbody>
</table>

The index was launched on 22 December 2021 with a base index value of 100.00 as of 29 February 2020.
4.35 MVIS® CryptoCompare NEAR VWAP Close Index

The MVIS® CryptoCompare NEAR VWAP Close Index is designed to track the performance of a NEAR digital asset. There is no component other than NEAR in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Polkadot (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare NEAR VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOFC05</td>
<td>BPLFT14</td>
<td>SLOFC0</td>
<td>MVNEARV</td>
<td>.MVNEARV</td>
</tr>
</tbody>
</table>

The index was launched on 07 March 2022 with a base index value of 100.00 as of 31 October 2020.
4.36  MVIS® CryptoCompare Polkadot VWAP Close Index

The MVIS® CryptoCompare Polkadot VWAP Close Index is designed to track the performance of a Polkadot digital asset. There is no component other than Polkadot in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Polkadot (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.
The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Polkadot VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0DMZ0</td>
<td>BMC2PJ1</td>
<td>SL0DMZ</td>
<td>MVDOTV</td>
<td>.MVDOTV</td>
</tr>
</tbody>
</table>

The index was launched on 30 June 2021 with a base index value of 100.00 as of 30 September 2020.
4.37 MVIS® CryptoCompare Polygon VWAP Close Index

The MVIS® CryptoCompare Polygon VWAP Close Index is designed to track the performance of a Polygon digital asset. There is no component other than Polygon in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Polygon (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Polygon VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOD984</td>
<td>BLH3DM1</td>
<td>SLOD98</td>
<td>MVMATICV</td>
<td>.MVMATICV</td>
</tr>
</tbody>
</table>

The index was launched on 18 November 2021 with a base index value of 100.00 as of 30 September 2020.
4.38 MVIS® CryptoCompare Solana VWAP Close Index

The MVIS® CryptoCompare Solana VWAP Close Index is designed to track the performance of a Solana digital asset. There is no component other than Solana in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Solana (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Solana VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SL0DMY3</td>
<td>BMC2P79</td>
<td>SL0DMY</td>
<td>MVSOLV</td>
<td>.MVSOLV</td>
</tr>
</tbody>
</table>

The index was launched on 30 June 2021 with a base index value of 10.00 as of 31 July 2020.
4.39 MVIS® CryptoCompare Terra VWAP Close Index

The MVIS® CryptoCompare Terra VWAP Close Index is designed to track the performance of a Terra digital asset. There is no component other than Terra in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than Terra (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component. This has happened in case of the restructuring to Terra 2.0 in May 2022.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare Terra VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLOEYU4</td>
<td>BNZHQP</td>
<td>SLOEYU</td>
<td>MVLUNAV</td>
<td>.MVLUNAV</td>
</tr>
</tbody>
</table>

The index was launched on 22 December 2021 with a base index value of 100.00 as of 31 July 2021.
4.40 MVIS® CryptoCompare TRON VWAP Close Index

The MVIS® CryptoCompare TRON VWAP Close Index is designed to track the performance of a TRON digital asset. There is no component other than TRON in the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available) until the number of components is 1 again. In the unlikely event a spun-off coin is larger than TRON (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it as the only index component.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 16:00:00 CET based on 1h volume weighted average prices (VWAPs) between 15:00 and 16:00 CET. The VWAPs are calculated with CCCAGG prices.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 16:00:00 CET of the last trading day of each month.

The MVIS® CryptoCompare TRON VWAP Close Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000SLODM05</td>
<td>BMC2PK2</td>
<td>SLODM0</td>
<td>MVTRXV</td>
<td>.MVTRXV</td>
</tr>
</tbody>
</table>

The index was launched on 30 June 2021 with a base index value of 100.00 as of 31 December 2018.
4 INDEXES

4.41 MVIS® CryptoCompare XRP Index

The MVIS® CryptoCompare XRP Index is designed to track the performance of a XRP digital asset. There is no component other than XRP in the index.

As XRP cannot hard fork, rule 5.2.1 never applies.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET.

The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The MVIS CryptoCompare XRP Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE000A2GGQV0</td>
<td>BYX86D3</td>
<td>A2GGQV</td>
<td>MVXRP</td>
<td>.MVXRP</td>
</tr>
</tbody>
</table>

The index was launched on 23 October 2017 with a base index value of 100.00 as of 31 January 2015.
4.42 Weiss MVIS® Top Tech Adoption Rating Index

The Weiss MVIS® Top Tech Adoption Rating Index is designed to track the performance of the largest digital assets, which have a top tech adoption rating by Weiss Ratings LLC. The weightings are capped at 50% as described in section 3.1.

Review procedure:

- The selection list contains all components of the MVIS® CryptoCompare Digital Assets 100 Index.
- All digital assets on the selection list with a Weiss Tech Adoption Rating of B- or better qualify for the index.

In case of a hard fork, which results in several active lines, rule 5.2.1 applies. The spun-off coin will be removed one day after the effective date (when a price and the main net is available), if no eligible rating is available. In the unlikely event a spun-off coin is larger than the original coin (by market capitalization) and is in general accepted as the successor of the original chain, the index owner might decide to keep it in the index.

The index is calculated daily between 00:00 and 24:00 (CET) and the index values are disseminated to data vendors every 15 seconds. The index is disseminated in USD and the closing value is calculated at 17:00:00 GMT with fixed 17:00 GMT exchange rates.

Adjustments to constituents will be announced four business days prior to the first business day of the next month at 23:00 CET. The Index is rebalanced at 17:00:00 GMT of the last trading day in each month.

The Weiss MVIS® Top Tech Adoption Rating Index has the following identifiers:

<table>
<thead>
<tr>
<th>Index Type</th>
<th>ISIN</th>
<th>SEDOL</th>
<th>WKN</th>
<th>Bloomberg</th>
<th>Reuters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price Return Index</td>
<td>DE00SL0BVP6</td>
<td>BM99ZD9</td>
<td>SL0BVP</td>
<td>MVWTAR</td>
<td>.MVWTAR</td>
</tr>
</tbody>
</table>

The index was launched on 16 December 2020 with a base index value of 100.00 as of 31 December 2017.
5 Ongoing Maintenance

5.1 Changes in Amount Outstanding

Changes in the amount outstanding will not be adjusted during the month, but with the next monthly review.

5.2 Changes due to Forks

A hard fork occurs when a blockchain protocol is radically changed, such that it becomes incompatible with older versions. In effect, participants taking part in transactions on the old blockchain must upgrade to the new one in order to continue validating transactions. However, participants that do not upgrade may continue to support and validate transactions on the older blockchain protocol separately. The result of this is that a blockchain splits into two - hence the name ‘hard fork’. If there are nodes permanently supporting the new chain, then the two chains will co-exist.

Users that once held digital assets on an older blockchain before the protocol change at a pre-specified blockchain length will now also hold an amount of new coins on the altered blockchain. This new asset has essentially been derived from an older token as well as its associated blockchain’s transaction history.

5.2.1 Addition of Forks

Where a constituent blockchain undergoes a hard fork, the newly created coin will be added to the index, as long as it is available for trading on one or more of eligible top tier exchanges (as defined by CryptoCompare’s exchange benchmark: must be rated AA or A / eligible exchanges for respective index), such available price(s) contributing to the CCCAGG, prior to the following review announcement. In addition to the exchange classification, the following criteria are taken into account if the forked coin is added to the index:

- Twitter followers: qualitative and quantitative measure of the community support level for the forked chain,
- Public developer: indicates that there are people that can be held accountable for any liability,
- Open source code: makes code auditing and vulnerability check possible,
- Premine: transparency in terms of the total supply of the Forked Coin and intentions,
- Announcement: the forked Chain will have to be announced a significant time prior to its activation, in doing so this would demonstrate the seriousness of the intended fork.

Each additional component resulting from a fork is immediately added to the index at least for one day according to the terms, if traded. In case it does not trade, it will be kept with a 0 price until the first price is retrieved (it will then be kept in the index for at least one day) or the next review becomes effective. Implementation is effective with the change in the respective block.

The same treatment applies to soft forks if the process results in a division or split into multiple non-fungible assets.
5 ONGOING MAINTENANCE

5.2.2 No Addition of Forks

In case of a hard fork, the forked coin is not added to the index. Only in case it is significant enough to replace the old line in terms of market capitalization and acceptance, MarketVector Indexes may decide for a different treatment.

5.3 Initial Coin Offerings (ICOs)

An ICO coin is eligible for fast-track addition to the investable index universe even if there is no full month of traded values. In order to be added to the index the ICO coin has to meet the liquidity requirements:

- the ICO must have an average-daily-trading volume of at least 1.0m USD, and
- must have traded for at least 10 days.

This rule is applicable for newly forked non-component coins as well.

5.4 Changes to Pricing (CCCAGG)

In case an exchange is added to CCCAGG or removed from it, the index divisor will not be adjusted.

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 analysed 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’s 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 analyse and comment upon the impact of such proposed material change. Any material comments received in relation to the Index Guide change and MarketVector Indexes’s 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 and Extraordinary Events

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:
5 ONGOING MAINTENANCE

• Liquidity and size data,
• Event information,
• Other secondary data.

Regarding extraordinary events, this may include:
• Trading stops,
• Regulatory actions,
• Hacks,
• Detection of fraud,
• Changes in custodian coverage,
• 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 in similar cases for the future an update of the index rules can be taken into consideration if applicable. Regarding the use of data, 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;
5 ONGOING MAINTENANCE

• the input data shall be verifiable;

• 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

6.1 Index Formula

6.1.1 Standard Indexes

The Indexes are calculated using the Laspeyres’ formula:

\[ \text{Index Value} = \frac{\sum_{i=1}^{n} p_i \cdot q_i \cdot cf_i \cdot fx_i}{D} = \frac{M}{D}. \]

Where (for all tokens (i) in the Index):

- \( p_i \) = price,
- \( q_i \) = amount outstanding,
- \( cf_i \) = weighting cap factor (if applicable, otherwise set to 1),
- \( fx_i \) = exchange rate (index currency to USD),
- \( M \) = market capitalization of the index,
- \( D \) = divisor.

6.1.2 MVIS® CryptoCompare Benchmark Rates

This section applies to the BBR, EBR, GBBRA and GEBRA. The indexes are calculated as an average of 1-hour quantity weighted median prices, which are calculated for 20 3-minute intervals.

\[ \text{Index Value} = \frac{1}{n} \sum_{i=1}^{n} M(i). \]

where the quantity weighted median price for each interval \( i \) is

\[ M(i) = \begin{cases} 
  p_{i,k} & \text{if } k \text{ satisfies } \sum_{j=1}^{k-1} q_{i,j} < \frac{1}{2} \sum_{j=1}^{J_i} q_{i,j} \text{ and } \sum_{j=k+1}^{J_i} q_{i,j} < \frac{1}{2} \sum_{j=1}^{J_i} q_{i,j}, \\
  p_{i,1} & \text{if } q_{i,1} > \frac{1}{2} \sum_{j=1}^{J_i} q_{i,j}, \\
  \frac{p_{i,k} + p_{i,k+1}}{2} & \text{if } \sum_{j=k+1}^{J_i} q_{i,j} = \frac{1}{2} \sum_{j=1}^{J_i} q_{i,j}, 
\end{cases} \]

with the number of intervals calculated as the total index time window divided by the interval window:

\[ n = \frac{T}{b}, \]

and

- \( p_{i,j} \) = \( j \)th price in \( i \)th interval,
- \( q_{i,j} \) = \( j \)th quantity/volume traded in \( i \)th interval,
- \( J_i \) = number of trades in \( i \)th interval,
- \( b \) = interval window for the calculation of the median prices,
- \( n \) = number of intervals,
- \( T \) = total index time window for the calculation of an index price.

The set of trades for the total index calculation consists of transactions occurring within the total index time window as follows:

\[ \theta_t = \{ a_{t,s,i,j} | t - T \leq s < t \}, \]

with
6.1 Calculation

\[ \theta_t \text{ = set of trades for the calculation of the index price at time } t, \]

\[ a_{i,j} \text{ = trade } j \text{ in trade set } A_i, \]

\[ s_{i,j} \text{ = time of trade } a_{i,j}. \]

Each interval consists of a subset of trades of \( \theta_t \):

\[ A_i \subset \theta_t \]

\( A_i \) being the set of trades for the calculation of the median price in interval \( i \), where each trade \( a_{i,j} \) within \( A_i \) is sorted by price \( p_{i,j} \) in ascending order and it holds that trades occur within the interval window as follows:

\[ A_i = \{ a_{i,j}(s_{i,j}, p_{i,j}, q_{i,j}) | (t - T) + (i - 1)b \leq s < (t - T) + ib \}. \]

### Index Parameters

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<th>Value</th>
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<td>Total time window of index ( T )</td>
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<tr>
<td>Interval window ( b )</td>
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<tr>
<td>Number of intervals ( n )</td>
<td>20 (given available transactions)</td>
</tr>
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</table>

6.2 Input Data

The following rounding procedures are used for the index calculation:

- Rounding to 2 decimal places:
  - index values,
- Rounding to 6 decimal places:
  - divisors \( D \),
- Rounding to 18 decimal places:
  - prices \( p_i \),
  - exchange rates \( f x_i \),
  - weighting cap factors \( c f_i \).

6.3 Divisor Adjustments

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

\[
Divisor_{\text{new}} = Divisor_{\text{old}} \times \frac{\sum_{i=1}^{n} p_i * q_i * c f_i * f x_i + \Delta MC}{\sum_{i=1}^{n} p_i * q_i * c f_i * f x_i}.
\]

\( \Delta MC = \) Difference between closing and adjusted closing market capitalization of the index.
6 CALCULATION

6.4 Event Related Adjustments

Events range widely from routine coin issuances to unusual events like forks. These are listed on the table below with notes about the necessary changes and whether the divisor will be adjusted.

\( p_i = \text{token price.} \)

- **Hard Fork**
  Divisor change: No.
  Investors receive ‘B’ new coins for every ‘A’ coin held.
  \[ p_{(i, \text{adjusted})} = \left( p_i \times A - \text{(price of forked coin \times B)} \right) / A \]
  Coin B is added to the index according to the terms.

- **Addition/Deletion of a component**
  Divisor change: Yes.
  Net change in market value determines the divisor adjustment.

- **Other**
  Divisor change: TBD.
  Net change in market value determines the divisor adjustment. In case of no change, the divisor change is 0.

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.

The following list of errors does not affect the indexes, as data are not considered in the calculation process:

- Bad data such as non-numerical price, volume or timestamp,
- Late/delayed transactions,
- Non-reporting exchanges.
- For BBR/EBR only: Full exchange exclusion when weighted median price of an exchange within the total index window deviates more than 10% from the median of the rest of the exchanges’ median price.

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 to 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.

• 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.
## Appendix

### 7.1 Names and Tickers

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<th>Symbol</th>
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### 7.2 Launch Dates and Base Values

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### 7.3 Changes to the Index Guide

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

<table>
<thead>
<tr>
<th>Date</th>
<th>IG Version</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 September 2018</td>
<td>1.25</td>
<td>Inclusion of additional chapters to comply with BMR</td>
</tr>
<tr>
<td>18 October 2018</td>
<td>1.26</td>
<td>Inclusion of MVQBTC, MVSBTC, MVQETH, MVSETH, rename MVXRP</td>
</tr>
<tr>
<td>20 November 2018</td>
<td>1.27</td>
<td>Inclusion of MVBTCO</td>
</tr>
<tr>
<td>12 July 2019</td>
<td>1.28</td>
<td>Update of top tier exchanges in fork treatment</td>
</tr>
<tr>
<td>2 September 2019</td>
<td>1.29</td>
<td>Clarification of eligibility (security tokens, financial instruments and pegged assets)</td>
</tr>
<tr>
<td>27 September 2019</td>
<td>1.30</td>
<td>Exclusion of MVQETH, MVSETH</td>
</tr>
<tr>
<td>25 November 2019</td>
<td>1.31</td>
<td>Inclusion of MVIBTC</td>
</tr>
<tr>
<td>16 March 2020</td>
<td>1.32</td>
<td>Replacement of Circle with XBTO in MVBTCO</td>
</tr>
<tr>
<td>03 June 2020</td>
<td>1.33</td>
<td>Inclusion of BBR, updated data correction process</td>
</tr>
<tr>
<td>06 August 2020</td>
<td>1.34</td>
<td>Inclusion of MVBTCV and MVETH, clarification of pricing methodology</td>
</tr>
<tr>
<td>07 August 2020</td>
<td>1.35</td>
<td>Conversion of MVETH to a spot price index</td>
</tr>
<tr>
<td>13 September 2020</td>
<td>1.36</td>
<td>Exclusion of MVQBTC, MVSBTC</td>
</tr>
<tr>
<td>16 December 2020</td>
<td>1.37</td>
<td>Inclusion of MVWTAR</td>
</tr>
<tr>
<td>13 January 2021</td>
<td>1.38</td>
<td>Inclusion of MVETHV</td>
</tr>
<tr>
<td>08 March 2021</td>
<td>1.39</td>
<td>New closing time for BBR</td>
</tr>
<tr>
<td>24 March 2021</td>
<td>1.40</td>
<td>Inclusion of EBR</td>
</tr>
<tr>
<td>31 March 2021</td>
<td>1.41</td>
<td>Discretion in case of extraordinary events, Real-time calculation for BBR and EBR</td>
</tr>
<tr>
<td>12 May 2021</td>
<td>1.42</td>
<td>Removal of MVBTCO, inclusion of MVDEFI</td>
</tr>
<tr>
<td>30 June 2021</td>
<td>1.43</td>
<td>Inclusion of MVDOTV, MVSOLV, MVTXV</td>
</tr>
<tr>
<td>2 August 2021</td>
<td>1.44</td>
<td>30 days announcement period for Index Guide changes</td>
</tr>
<tr>
<td>1 September 2021</td>
<td>1.45</td>
<td>Exchange screening for MVDA5, MVDA10 and MVDA25</td>
</tr>
<tr>
<td>8 October 2021</td>
<td>1.46</td>
<td>Inclusion of MVD, MVDFL, MVIAP, MVIALE, MVME, MVMELE, MVSCL, MVSCE</td>
</tr>
<tr>
<td>18 November 2021</td>
<td>1.47</td>
<td>Inclusion of MVAVAXV, MVMAICV</td>
</tr>
<tr>
<td>23 November 2021</td>
<td>1.48</td>
<td>Inclusion of GBBRA, GEBRA</td>
</tr>
<tr>
<td>7 December 2021</td>
<td>1.49</td>
<td>Inclusion of MVLADV</td>
</tr>
<tr>
<td>22 December 2021</td>
<td>1.50</td>
<td>Inclusion of MVALGOV, MVFTTV, MVLUNAV</td>
</tr>
<tr>
<td>31 January 2021</td>
<td>1.51</td>
<td>Removal of MVBCH, MVDASH, MVETC, MVIO, MVLTC, MVXMR, MVXEM, MVNEO, MVZEC</td>
</tr>
<tr>
<td>18 February 2022</td>
<td>1.52</td>
<td>Inclusion of MVDA5, MVGCFI</td>
</tr>
<tr>
<td>03 March 2022</td>
<td>1.53</td>
<td>Inclusion of MVMBR, MVSCBR</td>
</tr>
<tr>
<td>07 March 2022</td>
<td>1.54</td>
<td>Inclusion of MVSCLEV, MVLINKV, MVNEARV</td>
</tr>
<tr>
<td>16 May 2022</td>
<td>1.55</td>
<td>Inclusion of CBBR, CETBR</td>
</tr>
<tr>
<td>24 May 2022</td>
<td>1.56</td>
<td>Higher liquidity needed for MVDA, Minimum component count (5) for category indexes</td>
</tr>
<tr>
<td>01 June 2022</td>
<td>1.57</td>
<td>Inclusion of MVCEX</td>
</tr>
<tr>
<td>15 June 2022</td>
<td>1.58</td>
<td>Removal of MVBTC, MVETH</td>
</tr>
<tr>
<td>Date</td>
<td>Version</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>31 August 2022</td>
<td>1.59</td>
<td>Changed definition of el. exchanges in case of forks, move exchange review back to November (BBR/EBR)</td>
</tr>
<tr>
<td>25 November 2022</td>
<td>1.60</td>
<td>Removal of FTT from MVOCFI</td>
</tr>
</tbody>
</table>
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