



CoinDesk Select Industry Group Indices Methodology

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Introduction

Index Objective

The CoinDesk Select Industry Group Index series is designed to measure the market-capitalization weighted performance of some of the largest and most liquid digital assets classified in eligible DACS Industry Groups that meet certain trading and custody requirements.

Additional Details

The CoinDesk Select Industry Group Index series (the “Indices”) are based on the Digital Asset Classification Standard (DACS). Constituents of each index must be included in DACS and assigned to the appropriate Industry Group. For more information on DACS please refer to the DACS [Methodology](#).

This methodology was created by CoinDesk Indices (“CDI”) to achieve the Index Objective stated above. There may be circumstances or market events which require CDI, in its sole discretion, to deviate from these rules to ensure each Index continues to meet its Index Objective. This document should be read in conjunction with the CoinDesk Digital Asset Indices Policy Methodology.

Table 1 provides the list of indices as determined by CoinDesk Indices. This list may expand in the future at the discretion of CDI.

Table 1: List of Indices

Index Name	Index Ticker	Launch Date	Base Date	Base Value
CoinDesk Metaverse Select Index	MTVS	06/16/2022	05/18/2022	1000.00

Eligibility criteria

Universe Eligibility

To be included in the Universe, a digital asset must meet the following criteria as of the Reconstitution Reference Date:

1. The digital asset must be included in the most recently published DACS report and assigned to the appropriate DACS Industry Group as defined in Table 2.
2. Custodian services for the digital asset must be available from Coinbase Custody, a division of Coinbase Global Inc. and the digital asset must be accessible by U.S. investors.
3. The digital asset must not be categorized as a meme coin as determined by CDI.

4. The digital asset must have traded on at least one Eligible Exchange within the last 30 days up to and including the Reconstitution Reference Date. For details on Eligible Exchanges, refer to the CoinDesk Digital Asset Indices Policy Methodology.

Table 2: DACS Industry Group Eligibility

Index Name	DACS Industry Group Name
CoinDesk Metaverse Select Index	Metaverse

Index Construction

Constituent Selection

The constituent selection process targets the largest and most liquid digital assets from the Selection Universe subject to a final constituent count between 5 and 10 and buffer rules designed to reduce unnecessary turnover.

All digital assets that pass the *Eligibility Criteria* will be ranked by market capitalization, as of the Reconstitution Reference Date, in descending order. The 20 highest ranked digital assets that meet the Eligibility Criteria form the Selection Universe.

Constituents will be selected from the Selection Universe as follows:

1. For each digital asset in the Selection Universe, calculate the Median Daily Value Traded (MDVT) across eligible exchanges over the previous 30-day calendar period leading up to and including the Reconstitution Reference Date.
2. For each digital asset in the Selection Universe, determine the closing market capitalization as of the Reconstitution Reference Date.
3. Based on the results from Step 1 and Step 2, the market cap and liquidity requirements are determined as follows:
 - a. Non-Constituent Liquidity Requirement = 1.20 times the median MDVT of the Selection Universe
 - b. Non-Constituent Market Cap Requirement = 1.20 times the median closing market cap of the Selection Universe.
 - c. Constituent Liquidity Requirement = median MDVT of the Selection Universe
 - d. Constituent Market Cap Requirement = median closing market cap of the Selection Universe
4. Following the determination of the market cap and liquidity requirements, all digital assets that do not meet all of the following criteria as of the reconstitution reference date will be considered ineligible and, therefore, removed from the Selection Universe:

- a. Must be a constituent of the CoinDesk Market Index (“CMI”). For more information on the CMI, please refer to the [CoinDesk Market Index Methodology](#).
 - b. Must be supported by a CoinDesk Reference Rate with 3 contributing exchanges.
 - c. Must be included on the Watchlist (as determined during the last reconstitution).
5. All digital assets in the Selection Universe following Step 4 that were included in the Watchlist will be evaluated against the Non-Constituent Liquidity and Non-Constituent Market Cap Requirements. All current constituents in the Selection Universe will be evaluated against the Constituent Liquidity and Constituent Market Cap Requirements. Digital assets that meet or exceed these requirements will be selected as index constituents (see Table 3). Based on the following results:
 - a. If fewer than 6 digital assets are selected, the market cap and liquidity requirements for non-constituents will be relaxed to the requirements for constituents (Note: the digital asset must be included on the Watchlist and in the Selection Universe to be selected).
 - b. If more than 10 digital assets are selected, the digital asset(s) with the smallest market cap will be removed until 10 digital assets remain.
6. If Step 5 results in at least 5 digital assets selected as constituents, the selection process is complete. Otherwise, the market cap and liquidity requirements will be relaxed for constituents and non-constituents until a minimum of 5 constituents are selected. If there are fewer than 5 constituents in the Selection Universe, all digital assets in the Selection Universe will be selected and the constituent count will drop below the minimum of 5.

The Index Committee will review the constituent selection results if the market cap and liquidity criteria need to be relaxed.

Table 3: Selection Requirement:

Requirement for Inclusion	Non-Constituents	Constituents
Included in Selection Universe	Yes	Yes
Included on latest Watchlist	Yes	No
Minimum Markets Test	3 eligible exchanges	3 eligible exchanges
Closing Market Cap	\geq median Market Cap of the Selection Universe * 1.20	\geq median Market Cap of the Selection Universe
30-day Median Daily Value Traded (MDVT)	\geq median 30-day MDVT of the Selection Universe * 1.20	\geq median 30-day MDVT of the Selection Universe

Constituent Weighting

Constituents are market capitalization weighted subject to a minimum weight requirement of one percent. The following process is used to weight constituents at each reconstitution:

1. Determine the preliminary weights of each digital asset selected based on its market capitalization as a percentage of the total market capitalization of all digital assets selected.
2. Rank all digital assets from Step 1 in descending order based on the preliminary weight.
3. To minimize unnecessary turnover, the Minimum Weight Requirement for all current constituents (non-constituents) is 0.80 (1.0) percent respectively. The preliminary weights from Step 2 will be reviewed against the Minimum Weight Requirement.
4. If the preliminary weight of any digital asset from Step 2 is below the applicable Minimum Weight Requirement determined in Step 3 and there are more than 5 digital asset constituents, the following iterative steps are performed:
 - a. Remove the lowest ranked digital asset and redistribute its weight proportionally to all remaining digital assets.
 - b. Repeat Step 4 if the weight of any remaining digital asset is below the applicable Minimum Weight Requirement and there are more than 5 digital asset constituents.
5. The results determined in Step 4 will be the final constituents and weights.

Circulating Supply

At each reconstitution, the circulating supply for each constituent is determined based on the latest circulating supply on the Weighing Reference Date (see Index Maintenance). The circulating supply is not updated between reconstitutions.

Index Calculation

The indices are calculated in real-time using reference rates for each underlying constituent as described below.

Constituent pricing

Reference Rates for constituent digital assets are calculated approximately every 5 seconds by CDI using a volume weighted average price (VWAP) across three contributing exchanges over the prior 60 minutes. These reference rates are referred to as Settlement Reference Rates in the CoinDesk [Reference Rate Methodology](#).

The number of contributing exchanges may drop below three between reconstitutions. In the event the number of contributing exchanges drops below three between reconstitutions, the Index Committee will review the eligible exchanges at the end of the month to determine the appropriate course of action.

Calculation Formula

The Index is calculated using the following formula:

$$Index_t = \frac{\sum_{i=1}^N P_{i,t} \times S_i \times WAF_i}{Divisor}$$

where,

$Index_t$ is the value of the Index at time t

$P_{i,t}$ is the price of constituent i at time t , as determined by its Settlement Reference Rate,

S_i is the circulating supply of constituent i as of the Weighting Reference Date,

WAF_i^1 is the Weighting Adjustment Factor of constituent i , as of the Weighting Reference Date,

$Divisor$ is the Index Divisor.

Index Divisor Adjustment

The Index Divisor is recalculated on each reconstitution Effective Date and during any event which requires a change to the index constituents not driven solely by market price movements.

$$Divisor_{NC} = Divisor_{PC} \times \frac{\sum_{i=1}^N P_{i,SETT} \times S_{NC} \times WAF_{NC}}{\sum_{i=1}^N P_{i,SETT} \times S_{PC} \times WAF_{PC}}$$

where,

$P_{i,SETT}$ is the price of constituent i as of the Effective Date, or other date and time at which the Divisor Adjustment takes place, determined by its Settlement Reference Rate, NC represents the respective values of the new index constituents following the application of all changes and PC represents the respective values of the prior index constituents. Note that the price used in the numerator and denominator for each constituent is based on the settlement reference rates as of the effective timestamp of the changes.

Index Maintenance

¹ Indices in this methodology are weighted by market capitalization and, therefore, Weighting Adjustment Factors are set to 1.0.

Index Reconstitution

Each index is reviewed on a quarterly basis based on the rules described above. Any index changes resulting from the quarterly review are announced two weeks prior to the effective date and implemented on the second business day of January, April, July and October. Please see Table 4 for the reconstitution timing.

Table 4: Reconstitution Timing

Activity Description	Timing	Example Reconstitution Timing
Reconstitution Reference Date	Announcement Date minus 2 business days	06/16/2022
Announcement Date	Effective Date minus 14 calendar days (following business day if this is a holiday)	06/21/2022
Lock-down Circulating Supply (Weighting Reference Date)	Effective Date minus 7 calendar days (following business day if this is a holiday)	06/28/2022
Effective Date	4PM Eastern Time on the 2 nd business day of the start of each quarter	07/05/2022

In addition to the quarterly process, constituents are monitored for potential anomalies and trading disruptions. Out-of-review monitoring, which would require an index modification, only applies in extraordinary circumstances. Incident types that would require one or more index modifications are outlined in the CoinDesk Digital Asset Indices Policy Methodology.

Deletions

If a constituent is removed from an index outside of the scheduled reconstitution process it will not be replaced. The weight of the constituent being removed will be redistributed proportionally to all remaining constituents as of the effective date of removal.

The impacted constituent will be considered for inclusion at future reconstitutions if it meets the Eligibility and Selection Criteria.

Additions

There will be no additions to the index between reconstitutions unless the constituent count drops below 5. If the constituent count drops below 5, the Index Committee will review the eligible universe and determine the appropriate action.

DACS Sector Reclassification

In the event the DACS sector is modified for an existing index constituent between reconstitutions, the impacted constituent will remain in the index until the next scheduled reconstitution. Based on the new industry group assignment, the impacted digital asset will be added automatically to the Watchlist for the relevant Select Industry Group index, if one exists, and be reviewed at the next reconstitution for possible inclusion.

Watchlist

Following the Constituent Selection and Weighting processes, a new Watchlist will be created that will be used for the Constituent Selection for the next Reconstitution. The process to create the Watchlist is as follows:

1. All digital assets in the Selection Universe that were not selected as constituents for the current reconstitution are evaluated against the Constituent Liquidity Requirement and Constituent Market Cap Requirements determined in Step 3 of the Constituent Selection process.
2. All digital assets in Step 1 that meet or exceed both requirements will form the new Watchlist.
3. If the Market Cap and Liquidity Requirements were relaxed as part of the current Constituent Selection process, the Index Committee reserves the right to include additional digital assets on the new Watchlist.

Data Distribution

Real-time index values are calculated 24x7 and are available publicly at <https://coindesk.com/indices/> and are also available to subscribers via REST, WebSocket APIs, and scheduled email updates.

Index Governance

The CoinDesk Index Committee provides ongoing oversight of each Index and its Methodology. For more details on the Index Committee, please refer to the Index Governance section of the CoinDesk Digital Asset Indices Policy Methodology.

Appendix 1: Data sources

This section describes data sources used to maintain, reconstitute, and calculate the Indices. If data is not available for any reason from the sources described in this appendix, other data sources may be used.

Price data

Prices used to calculate Reference Rates are sourced from Eligible Exchanges.

Volume data

Volume data used to calculate Reference Rates are sourced from Eligible Exchanges.

Reconstitution Data

Market capitalization and circulating supply data are provided by CCData and are taken at midnight UTC. Circulating supply and market capitalization data is subject to review by CDI and may be modified for appropriateness.

Daily notional volume is sourced from eligible exchanges. Daily notional generally reflects midnight UTC but is determined by the convention that the exchange uses, which may differ. In the event an exchange does not explicitly provide daily notional, CDI will estimate daily notional for a digital asset using the following formula:

Daily Notional Volume = Daily trading volume * (open price + close price)/2

Other data

The availability of requisite custodian services for digital assets is obtained directly from the custody provider(s).

Appendix 2: Methodology Changes

The table below is a summary of modifications to this Methodology.

Effective Date	Prior Treatment	Updated Treatment	Material Change
Dec 10, 2024	Index calculation formula is a weighted return of each constituent's weight as of the prior reconstitution effective date multiplied by its price return since the prior reconstitution effective date.	Index is calculated by summing up the market value of each constituent and dividing by a Divisor	No
May 20, 2024	Digital assets must be ranked within the top 200 of DACS to be eligible.	Digital assets must be included in DACS to be eligible.	No
Dec 21, 2022	N/A	Digital asset must be included in CMI to be eligible for inclusion.	No
Dec 21, 2022	Weighting Reference Date 2 business prior to Effective Date	Weighting Reference Date 7 calendar day prior to Effective Date	No

Appendix 3: Document Revision History

Timing	Description
Dec 10, 2024	Update to calculation formula to use a divisor methodology.
Aug 23, 2024	Updated Constituent Pricing section to clarify that pricing uses the Settlement Reference Rates in the Reference Rate Methodology following the addition of Spot Reference Rates
May 9, 2024	See Methodology Changes Appendix dated 5/20/2024. In addition, minor updates and clarifications as part of the Annual Methodology Review
Jul 21, 2023	Minor updates and clarifications to certain sections
Mar 6, 2023	Annual Methodology Review including minor updates and clarifications.
Dec 21, 2022	<ul style="list-style-type: none"> -Updates to Index Selection language -Removed reference to stablecoins in Eligibility section as stablecoins is a separate sector in DACS. -Updates to Constituent Pricing section to refer to the CoinDesk Reference Rate methodology -Addition of new index – CMIS -Updates to Data Sources appendix related to determination of notional volume
Jun 7, 2022	Initial version

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