

CF Spot Rates

Methodology Guide

Version:

14.3

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Version History

Version	Version Date	Changes to Previous	
1.0	20 th June 2018	N/A	
2.0	15 th August 2018	Addition of Parameters & Specifications for Bitcoin Cash	
3.0	5 th June 2019	Amendment to Methodology Parameters for CF Bitcoin Cash-Dollar Spot Rate and CF Ripple-Dollar Spot Rate	
3.1	2 nd July 2019	Removal of Bitfinex from CF Ripple-Bitcoin Spot Rate	
3.2	16 th July 2019	Move constituent list to separate document	
4.0	16 th July 2019	Rebrand for CF Benchmarks	
5.0	11 th September 2019	Update legal text with BMR registration	
6.0	2 nd December 2019	Change order size cap from static to dynamic	
7.0	10 th February 2020	Change potentially erroneous data parameter	
8.0	13 th May 2020	 Addition of: CF EOS-Dollar Spot Rate CF Stellar Lumens-Dollar Spot Rate CF Tezos-Dollar Spot Rate Update ticker symbols 	
9.0	20 th May 2020	Clarify use of orderbook price levels	
10.0	31 st July 2020	 Addition of sections concerning: Underlying Economic Reality Expert Judgement Methodology Review and Changes 	
11.0	25 th August 2020	 Addition of: CF PAX Gold-Dollar Spot Rate CF Bitcoin-Euro Spot Rate CF Ether-Euro Spot Rate 	
12.0	14 th September 2020	Change to the implementation of the Potentially Erroneous Data Parameter	

Version	Version Date	Changes to Previous	
12.1	13 th October 2020	Addition of: • CF Chainlink-Dollar Spot Rate	
12.2	28 th January 2021	Addition of: • CF OMG Network – Dollar Spot Rate • CF Orchid – Dollar Spot Rate	
12.3	24 th May 2021	 Addition of: CF Algorand-Dollar Spot Rate CF Atom-Dollar Spot Rate CF Basic Attention Token-Dollar Spot Rate CF Dai-Dollar Spot Rate Removal of contents referencing demised indices and section "A Note on Properties" Correction to equation 4h in section "Dynamic Order Size Cap" 	
12.4	4 th August 2021	Addition of: • CF Cardano-Dollar Spot Rate • CF Compound-Dollar Spot Rate • CF Filecoin-Dollar Spot Rate • CF Uniswap-Dollar Spot Rate	
12.5	9 th September 2021	 Specification changes to: CF Chainlink-Dollar Spot Rate CF OMG Network-Dollar Spot Rate CF Basic Attention Token-Dollar Spot Rate CF Orchid-Dollar Spot Rate CF Algorand-Dollar Spot Rate CF Cosmos-Dollar Spot Rate 	
12.6	8 th October 2021	 Addition of: CF Aave-Dollar Spot Rate CF Dogecoin-Dollar Spot Rate CF Polkadot-Dollar Spot Rate CF Polygon-Dollar Spot Rate CF Solana-Dollar Spot Rate 	
12.7	13 th December 2021	 Addition of: CF Maker-Dollar Spot Rate CF TheGraph-Dollar Spot Rate CF YearnFinance-Dollar Spot Rate CF Synthetix-Dollar Spot Rate CF Amp-Dollar Spot Rate CF Curve-Dollar Spot Rate CF Decentraland-Dollar Spot Rate 	

12.8	23 rd March 2022	 Addition of: CF Enjin-Dollar Spot Rate CF Chiliz-Dollar Spot Rate CF Livepeer-Dollar Spot Rate CF Sushiswap-Dollar Spot Rate CF Sandbox-Dollar Spot Rate CF Rarible-Dollar Spot Rate CF AxieInfinity-Dollar Spot Rate CF Loopring-Dollar Spot Rate CF Avalanche-Dollar Spot Rate
12.9	25 th April 2022	 Removal of CF Bitcoin Cash – Dollar Spot Rate CF Litecoin – Dollar Spot Rate CF Solana – Dollar Spot Rate CF Uniswap – Dollar Spot Rate CF Stellar Lumens – Dollar Spot Rate CF Algorand – Dollar Spot Rate CF Cosmos – Dollar Spot Rate CF Chainlink – Dollar Spot Rate CF Cardano – Dollar Spot Rate CF Polkadot – Dollar Spot Rate CF Polygon – Dollar Spot Rate
12.10	6 th June 2022	Removal of: • CF Bitcoin - Euro Spot Rate • CF Ether - Euro Spot Rate
13.0	13 th July 2022	Addition of definition of and references to "Accepted Assets"
13.1	31 st October 2022	 Removal of: CF Avalanche – Dollar Spot Rate CF Filecoin – Dollar Spot Rate CF Tezos – Dollar Spot Rate Updated formulas within 4.2 Mathematical Representation
13.2	19 th December 2022	 Removal of: CF Aave-Dollar Spot Rate CF Curve-Dollar Spot Rate CF Synthetix-Dollar Spot Rate Addition of: CF ApeCoin-Dollar Spot Rate CF Ethereum Classic-Dollar Spot Rate CF Internet Computer-Dollar Spot Rate
13.3	30 th January 2023	Removal of: • CF AxieInfinity-Dollar Spot Rate • CF Chiliz-Dollar Spot Rate • CF Decentraland-Dollar Spot Rate



13.4	09 th May 2023	 Update of Dissemination Precision for: CF Basic Attention Token-Dollar Spot Rate CF Compound-Dollar Spot Rate CF Enjin-Dollar Spot Rate CF Livepeer-Dollar Spot Rate 	
13.5	15 th August 2023	 Update of Dissemination Precision for: CF Maker-Dollar Spot Rate CF ApeCoin-Dollar Spot Rate CF Ethereum Classic-Dollar Spot Rate CF EOS-Dollar Spot Rate CF Internet Computer-Dollar Spot Rate CF Basic Attention Token-Dollar Spot Rate CF Dogecoin-Dollar Spot Rate CF Loopring-Dollar Spot Rate 	
13.6	13th November 2023	Update to logo & format	
13.7	20 th November 2023	Updated logo (AKC v2)	
13.8	06 th February 2024	Update to the definition of Retrieval Time	
13.9	23 rd July 2024	Addition of: • CF Shiba Inu-Dollar Spot Rate	
14.0	29 th July 2024	 Removal of: CF Internet Computer-Dollar Spot Rate CF Ripple-Dollar Spot Rate 	
14.1	25 th November 2024	Addition of:CF Tether-Dollar Spot RateCF USD Coin-Dollar Spot Rate	

Addition of: CF 1inch Network-Dollar Spot Rate • CF Alchemy Pay-Dollar Spot Rate • CF Adventure Gold-Dollar Spot Rate • CF Akash Networ-Dollar Spot Rate • • CF Ankr-Dollar Spot Rate CF API3-Dollar Spot Rate • CF Aptos-Dollar Spot Rate • CF ARPA Network-Dollar Spot Rate • CF Badger DAO-Dollar Spot Rate • CF Balancer-Dollar Spot Rate • CF Band Protocol-Dollar Spot Rate • CF Biconomy-Dollar Spot Rate • CF Blur-Dollar Spot Rate • CF Bonk-Dollar Spot Rate • CF Celer Network-Dollar Spot Rate • **CF COTI-Dollar Spot Rate** • CF Cartesi-Dollar Spot Rate • CF Civic-Dollar Spot Rate • CF Convex Finance-Dollar Spot Rate • • CF Dash-Dollar Spot Rate CF Drift Protocol-Dollar Spot Rate • CF Electronic Gold-Dollar Spot Rate • CF Artificial Superintelligence Alliance-Dollar • Spot Rate CF Solana Name Service-Dollar Spot Rate • CF Gala-Dollar Spot Rate CF Gigachad-Dollar Spot Rate • 14.2 14th April 2025 **CF GMT-Dollar Spot Rate** • **CF Hedera-Dollar Spot Rate** • • CF Helium-Dollar Spot Rate CF IDEX-Dollar Spot Rate • CF Injective-Dollar Spot Rate-Dollar Spot Rate • CF IoTeX-Dollar Spot Rate • CF JasmyCoin-Dollar Spot Rate • CF Jito-Dollar Spot Rate • CF Jupiter-Dollar Spot Rate • CF Kusama-Dollar Spot Rate • CF Lido-Dollar Spot Rate • CF Mask Network-Dollar Spot Rate • CF Mina-Dollar Spot Rate • • **CF Numeraire-Dollar Spot Rate** CF Origin Protocol-Dollar Spot Rate • CF Optimism-Dollar Spot Rate • • CF Orca-Dollar Spot Rate **CF Pepe-Dollar Spot Rate** • **CF Perpetual Protocol-Dollar Spot Rate** • CF Powerledger-Dollar Spot Rate • CF Pyth Network-Dollar Spot Rate • CF Radworks-Dollar Spot Rate • CF SuperRare-Dollar Spot Rate • CF Render-Dollar Spot Rate • CF iExec RLC-Dollar Spot Rate • CF Rocket Pool-Dollar Spot Rate • CF Sei-Dollar Spot Rate • **CF SKALE-Dollar Spot Rate**



		 CF Spell Token-Dollar Spot Rate CF Storj-Dollar Spot Rate CF Starknet-Dollar Spot Rate CF Stacks-Dollar Spot Rate CF SuperVerse-Dollar Spot Rate CF Swell Network-Dollar Spot Rate CF Synapse-Dollar Spot Rate CF Celestia-Dollar Spot Rate CF TrueFi-Dollar Spot Rate CF UMA-Dollar Spot Rate CF Dogwifhat-Dollar Spot Rate CF Zcash-Dollar Spot Rate CF ZetaChain-Dollar Spot Rate CF LayerZero-Dollar Spot Rate CF Ox Protocol-Dollar Spot Rate
14.3	19 th June 2025	 Addition of: CF Cronos-Dollar Spot Rate Correction added by excluding already demised indices: CF Enjin-Dollar-Dollar Spot Rate (August 20th, 2024)

2 Overview

The CF Spot Rates have been specifically designed to serve as a transparent and representative indicator of the instantaneous price of a digital asset for the purposes of calculating margining requirements for futures trading and other financial instruments. No further applications of the CF Settlement Prices have been taken into consideration in its design.

This document covers the methodology for calculating the CF Spot Rates. A summary of specifications is provided in Section 7.

Underlying Economic Reality

The CF Spot Rates are intended to measure the underlying economic reality of the exchange of the base asset for the quote asset and vice versa. This is accomplished by the use of order input data from markets that facilitate the trading of the base asset for the quote asset, markets where the quote asset is made fungible with Accepted Assets by the Constituent Exchange as a means of transacting for the base asset including markets where the quote asset is fungible with Accepted Assets on a 1:1 basis, , the criteria for eligibility for which are available in the CF Constituent Exchange Criteria.

3 Definitions

Accepted Asset: a digital asset that is a fully reserve backed digital token, commonly referred to as a "stablecoin", that seeks to peg its value to that of the quote asset, where the stablecoin issuer operates a 1:1 redemption facility that is accessible to all Accepted Asset holders. Furthermore, only digital assets that solely hold reserve assets that are In line with the prevailing regulations enforced for government security money market funds in major jurisdiction such as the US, UK and EU. Accepted Assets are subject to the approval of the CF Cryptocurrency Index Family Oversight Function ("the Function" or "the Oversight Function") in accordance with the CF Cryptocurrency Index Family Oversight Function Specifications

Accepted Asset List:

Name	Ticker Symbol
USD Coin	USDC

API: Application programming interface.

Calculation Time: Any time as of which a CF Spot Rate is published.

Constituent Exchange: A cryptocurrency trading venue approved by CF management to serve as pricing source for the calculation of a CF Spot Rate

Relevant Pair: The cryptocurrency versus cryptocurrency or legal tender pair referenced by a CF Spot Rate, as defined in Section 6.

Relevant Order Book: The universe of the currently unmatched limit orders to buy or sell a unit of cryptocurrency versus cryptocurrency or legal tender on a Constituent Exchange in the Relevant Pair, aggregated by price, that is reported through its API to the Calculation Agent.

Retrieval Time: The time, as given by the server clock of the Calculation Agent, which the Relevant Order Book of a Constituent Exchange corresponds to. When obtained from a request/response API such as a REST API, this would be the time of the request made by the Calculation Agent through the API of the Constituent Exchange. When obtained from a real time feed such as a Websocket API, this would be the most recent time as of which the Calculation Agent has a valid Order Book from an unbroken connection.



4 Methodology and Rules

4.1 Qualitative Description

The CF Spot Rates are calculated in real time based on the Relevant Order Books of all Constituent Exchanges. An order book is a list of buy and sell orders with associated limit prices and sizes that have not yet been matched due to lack of supply or demand to trade at that price. It therefore informs about the price at which a trader can buy or sell a certain amount of cryptocurrency as of now. In line with existing cryptocurrency market practises, the "order size" refers to the aggregated sizes of all orders at the same price, the price/sizes tuples of buy orders ("bids") descend by price and the price/size tuples of sell orders ("asks") ascend by price.

Calculation steps are as follows:

- 1. At the Effective Time, the Relevant Order Book of each Constituent Exchange is added to a joint list of order books.
- 2. The joint list of order books is aggregated into one consolidated order book. If the size of a bid or ask order price level exceeds the order size cap, it enters the consolidated order book with a size equal to the order size cap.
- 3. The cumulative bid price-volume curve, ask price-volume curve, mid pricevolume curve and mid spread-volume curve are calculated from the consolidated order book at a granularity equal to the spacing parameter.
 - a. The bid price-volume curve maps transaction volume to the marginal price per cryptocurrency unit a seller is required to accept in order to sell this volume to the consolidated order book.
 - b. The ask price-volume curve maps a transaction volume to the marginal price per cryptocurrency unit a buyer is required to pay in order to purchase this volume from the consolidated order book.
 - c. The mid price-volume curve represents the average of the bid price-volume curve and the ask price-volume curve.
 - d. The mid spread-volume curve represents the percentage deviation of the ask price-volume curve from the mid price-volume curve.
- 4. The utilized depth is calculated as the maximum cumulative volume for which the mid spread-volume curve does not exceed a certain percentage deviation from the mid price. If this volume is less than the spacing parameter, the utilized depth is set to the spacing parameter.
- 5. The mid price-volume curve is weighted by the normalized probability density of the exponential distribution up to the utilized depth.
- 6. The CF Spot Rate is then given by the sum of the weighted mid price-volume curve obtained in the previous step.

4.2 Mathematical Representation

The following table shows the symbols used in the mathematical representation of CF Spot Rates.

Symbol	Name	Description	Туре
Т	Effective time	The time at which a CF Spot Rate is calculated	Parameter, see Section 6
C _T	Order size cap	The size above which any excess size of a bid or ask order price level is discarded	Internal variable, see Section 4.3
D	Deviation from mid	The maximum percentage deviation of a limit order price level from the mid price-volume curve, until which that limit order price level is used for the calculation of a CF Spot Rate	Parameter, see Section 6
λ	Lambda	A parameter that determines the shape of the probability density function of the exponential distribution	Parameter, see Section 6
S	Spacing	The spacing granularity of a price-volume curve	Parameter, see Section 6
ν	Volume	The independent variable of a price-volume curve	Internal variable
A_T	Ask orders	The ask order price levels of the consolidated order book as of the effective time, ordered ascending by price	Input
$a_{T,i}$ with $a_{T,i} =$ $(ap_{T,i}, a\dot{s}_{T,i}),$ $a_{T,i} \in A_T, a\dot{s}_{T,i} =$ min $\{as_{T,i}, C_T\}$	Ask order	The <i>i</i> th price/size ask order pair of the consolidated order book	Input
B _T	Bid orders	The bid order price levels of the consolidated order book as of the effective time, ordered descending by price	Input
$egin{aligned} & m{b}_{T,i} \ & ext{with } m{b}_{T,i} = \ & m{(}m{b}m{p}_{T,i},m{b}m{\dot{s}}_{T,i}m{)}, \end{aligned}$	Bid order	The <i>i</i> th price/size bid order pair of the consolidated order book	Input

$b_{T,i} \in B, b\dot{s}_{T,i} \\ = \min\{bs_{T,i}, C_T\}$			
NF	Normalization factor	A parameter chosen such that $\frac{1}{NF} \sum_{\nu \in \{s, 2s, \cdots, \overline{\nu}_T\}} \lambda e^{-\lambda \nu} = 1$	Output
CCRTI _T	CCRTI	The CF Spot Rate at time T	Output

Using the above notation, we define the ask price-volume curve, $askPV_T$, the bid price-volume curve, $bidPV_T$, the mid price-volume curve, $midPV_T$, and the mid spread-volume curve, $midSV_T$, in each case as of the effective time *T*, as:

$a_{T,i}^{\Sigma} = \sum_{j=1}^{i} a \dot{s}_{T,j}$	Eq. 1a
$m{b}^{\Sigma}_{T,i} = \sum_{j=1}^{i} m{b} \dot{s}_{T,j}$	Eq. 1b
$\boldsymbol{p} = \min\left(\left \frac{1}{s}\min\left(a_{T, A_{T} }^{\Sigma}, \boldsymbol{b}_{T, B_{T} }^{\Sigma}\right)\right , 50000\right)$	Eq. 1c
$V = \{ns 1 \le n \le p\}$	Eq. 1d
$askPV_{T}(v): v \in V = \begin{cases} ap_{T,1} \text{ if } v \leq a_{T,1}^{\Sigma} \\ ap_{T,2} \text{ if } a_{T,1}^{\Sigma} < v \leq a_{T,2}^{\Sigma} \\ \dots \\ ap_{T, A_{T} -1} \text{ if } a_{T, A_{T} -2}^{\Sigma} < v \leq a_{T, A_{T} -1}^{\Sigma} \\ ap_{T, A_{T} } \text{ otherwise} \end{cases}$	Eq. 1e
$bidPV_{T}(v): v \in V = \begin{cases} bp_{T,1} \text{ if } v \leq b_{T,1}^{\Sigma} \\ bp_{T,2} \text{ if } b_{T,1}^{\Sigma} < v \leq b_{T,2}^{\Sigma} \\ \dots \\ bp_{T, B_{T} -1} \text{ if } b_{T, B_{T} -2}^{\Sigma} < v \leq b_{T, B_{T} -1}^{\Sigma} \\ bp_{T, B_{T} } \text{ otherwise} \end{cases}$	Eq. 1f
$midPV_T(v): v \in V = \frac{askPV_T(v) + bidPV_T(v)}{2}$	Eq. 1g
$midSV_T(v): v \in V = \frac{askPV_T(v)}{midPV_T(v)} - 1$	Eq. 1h

The utilized depth, \bar{v}_T , is calculated as:

$$\overline{v}_T = max(v \text{ where } midSV_T(v) \le D \text{ and } midSV_T(v+s) > D, s)$$
 Eq. 2

The CF Spot Rate as of the effective time T, $CCRTI_T$, is then given by:



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$$CCRTI_{T} = \sum_{\nu \in \{s, 2s, \dots, \overline{\nu}_{T}\}} midPV_{T}(\nu) \frac{1}{NF} \lambda e^{-\lambda \nu}$$
 Eq. 3

4.3 Dynamic Order Size Cap

Unless specified as a fixed value in Section 6, the order size cap is calculated from the uncapped consolidated order book. The following symbols are used in the calculation of the order size cap:

Symbol	Name	Description
ac _T	Ask sample size	The number of samples used for ask-side sizes
bc _T	Bid sample size	The number of samples used for bid-side sizes
$S_T = \{s_{T,1}, s_{T,2}, \cdots s_{T,n_T}\}$	Size sample set	The consolidated set of sizes, ordered by ascending size
k	Trimming / winsorizing size	The number of samples to trim or winsorize from S_T
Ī	Trimmed mean	The trimmed mean of the sample set S_T
$S'_{T} = \{s'_{T,1}, s_{T,2}, \cdots s'_{T,n_{T}}\}$	Winsorized sample set	The winsorized sample set of S_T
<u>s</u> ′	Winsorized mean	The mean of the winsorized sample set S'_T
σ	Winsorized sample standard deviation	The sample standard deviation of the winsorized sample set ${\cal S'}_T$

Using the above notation, the dynamic order size cap is derived as follows:

$ac_{T} = max \Big(\max_{1 \le i \le A_{T} } \{ i \mid ap_{T,i} \le 1.05ap_{T,1} \}, min(A_{T} , 50) \Big)$	Eq. 4a
$bc_{T} = max \left(\max_{1 \le i \le B_{T} } \{ i \mid bp_{T,i} \ge 0.95bp_{T,1} \}, \min(B_{T} , 50) \right)$	Eq. 4b
$S_{T} = \begin{bmatrix} bs_{T,1}, bs_{T,2}, \cdots, bs_{T,bc_{T}} \end{bmatrix} \cup \begin{bmatrix} as_{T,1}, as_{T,2}, \cdots, as_{T,ac_{T}} \end{bmatrix}$ $S_{T} = \begin{bmatrix} s_{T,1}, s_{T,2}, \cdots, s_{T,n_{T}} \end{bmatrix} \text{ where } s_{T,1} \le s_{T,2} \le \cdots \le s_{T,n_{T}}$	Eq. 4c
$k = \lfloor 0.01n_T \rfloor$	Eq. 4d
$\overline{s} = \frac{1}{n_T - 2k} \sum_{i=k+1}^{n_T - k} s_{T,i}$	Eq. 4e
$s'_{T,i} = s_{T,k+1}$ if $i \le k$ $s'_{T,i} = s_{T,n-k}$ if $i > n-k$ $s'_{T,i} = s_{T,i}$ otherwise	Eq. 4f
$\overline{s}' = \frac{1}{n_T} \sum_{i=1}^{n_T} s'_{T,i}$	Eq. 4g
$\sigma = \sqrt{\frac{1}{n_T - 1} \sum_{i=1}^{n_T} (s'_{T,i} - \overline{s}')^2}$	Eq. 4h

The order size cap as of the effective time T, C_T , is then given by:

$C_T = \overline{s} + 5\sigma$	Eq. 5
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5 Contingency Calculation Rules

5.1 Delayed Data

Delayed data is treated according to the following rules:

1. If the Retrieval Time of the Relevant Order Book of a Constituent Exchange is at least 30 seconds older than the Calculation Time, the Constituent Exchange is disregarded in the calculation of the CF Spot Rate for that Calculation Time.

If the Retrieval Times of the Relevant Order Books of all Constituent Exchanges are each at least 30 seconds older than the Calculation Time, a CF Spot Rate calculation failure occurs for that Calculation Time (see Section 5.5).

5.2 Erroneous Data

5.2.1 Erroneous Books

All Relevant Order Books are subject to an automated screening for erroneous data according to the following rules:

- 1. If the format of a Relevant Order Book deviates from the expected format such that it cannot be parsed, it is flagged as erroneous.
- 2. If the Relevant Order Book contains no bid orders or no ask orders, it is flagged as erroneous.
- 3. If the Relevant Order Book crosses, it is flagged as erroneous.

Relevant Order Books flagged as erroneous for a given Calculation Time are disregarded in the calculation of the CF Spot Rate for that Calculation Time.

If the Relevant Order Books of all Constituent Exchanges are flagged as erroneous for a given Calculation Time, a CF Spot Rate calculation failure occurs for that Calculation Time (see Section 5.5).

5.2.2 Erroneous Prices

All Relevant Order Books are subject to an automated filtering process according to the following rule.

1. If a Relevant Order Book contains any entries with a non-numeric or non-positive limit price or size then any such entries are flagged as erroneous.

All entries in a Relevant Order Book which are flagged as erroneous for a given Calculation Time are disregarded in the calculation of the CF Spot Rate for that Calculation Time.

5.3 Potentially Erroneous Data

All Relevant Order Books are subject to an automated screening for potentially erroneous data according to the following rules:

- 1. For each Constituent Exchange individually, the current mid price is calculated as the average of the highest bid price and the lowest ask price of the Relevant Order Book.
- 2. For each Constituent Exchange, the absolute percentage deviation of the mid price, as calculated in the previous step, from the median of the mid prices of all Constituent Exchanges is calculated.
- 3. If for any Constituent Exchange the absolute percentage deviation, as calculated in the previous step, exceeds the Potentially Erroneous Data Parameter for the respective Spot Rate represented in the Spot Rate Parameters (section 6) then the Relevant Order Book of that Constituent Exchange for the affected Spot Rate is flagged as potentially erroneous.
- 4. 4. Upon an orderbook of a Constituent Exchange having been disregarded in the calculation as described in the previous step, its orderbook shall continue to be disregarded from the calculation of the affected index until the absolute deviation of the mid-price of its orderbook as calculated in step 2 is less than 50% of the Potentially Erroneous Data Parameter. At this point it shall be re-instated to the calculation for that Calculation Time and all subsequent Calculation Times unless it is removed from the calculation for any of the reasons as described in section 5.

Relevant Order Books flagged as potentially erroneous for a given Calculation Time are disregarded in the calculation of the CF Spot Rate for that Calculation Time. The occurrence of any such flag is reported to the Oversight Function.

If the Relevant Order Books of all Constituent Exchanges are flagged as potentially erroneous for a given Calculation Time, a CF Spot rate Calculation Failure occurs for that Calculation Time (see Section 5.5).

5.4 Expert Judgement

The Administrator does not utilise expert judgment in the day to day calculation of the Spot Rates. In extraordinary circumstances Expert Judgement may be exercised by the

Administrator in accordance with its codified policies and processes which are available upon request.

5.5 Calculation Failure

If a CF Spot Rate cannot be calculated for a given Calculation Time, for instance because:

- the Retrieval Times of the Relevant Order Books of all Constituent Exchanges are each at least 30 seconds older than the Calculation Time, or
- all Relevant Order Books are flagged as erroneous or potentially erroneous (see Section 5.2); or
- any other reason or circumstance that prevents the orderly calculation of a CF Spot Rate,

then the CF Spot Rate for that Calculation Time is not published. The occurrence of any CF Spot Rate calculation failure is reported to CF management and persistent failure will lead to a review of the methodology.

6 Spot Rate Parameters

6.1 Constants

Effective Time (T)	Approximately every second of each day for the entire year including weekends and holidays.
Lambda (λ)	$\frac{1}{0.3\bar{v}_T}$

6.2 Spot Rate Parameters

The following table summarizes the parameters for the currently supported CF Spot Rates:

Index	Spacing (s)	Deviation from Mid (D)	Potentially Erroneous Data Parameter	Order Size Cap (<i>C_T</i>)
CF EOS-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF PAX Gold-Dollar Spot Rate	1	2%	10%	25
CF Orchid-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Basic Attention Token- Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Dai-Dollar Spot Rate	10,000	1%	5%	Dynamic
CF Compound-Dollar Spot Rate	10	1%	10%	Dynamic
CF Dogecoin-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Maker-Dollar Spot Rate	1	1%	10%	Dynamic
CF TheGraph-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF YearnFinance-Dollar Spot Rate	1	1%	10%	Dynamic
CF Amp-Dollar Spot Rate	100,000	1%	10%	Dynamic
CF Livepeer-Dollar Spot Rate	100	1%	10%	Dynamic
CF Sushiswap-Dollar Spot Rate	100	1%	10%	Dynamic
CF Sandbox-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Rarible-Dollar Spot Rate	100	1%	25%	Dynamic
CF Loopring-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF ApeCoin-Dollar Spot Rate	100	1%	25%	Dynamic

CF Ethereum Classic-Dollar Spot Rate	100	1%	25%	Dynamic
CF Shiba Inu-Dollar Spot Rate	1,000,000,000	2%	25%	Dynamic
CF Tether-Dollar Spot Rate	1,000	3%	3%	Dynamic
CF USD Coin-Dollar Spot Rate	1,000	3%	3%	Dynamic
CF 1inch Network-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Alchemy Pay-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Adventure Gold-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Akash Networ-Dollar Spot Rate	100	1%	25%	Dynamic
CF Ankr-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF API3-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Aptos-Dollar Spot Rate	100	1%	25%	Dynamic
CF ARPA Network-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF Badger DAO-Dollar Spot Rate	100	1%	25%	Dynamic
CF Balancer-Dollar Spot Rate	100	1%	10%	Dynamic
CF Band Protocol-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Biconomy-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Blur-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Bonk-Dollar Spot Rate	10,000,000	1%	10%	Dynamic
CF Celer Network-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF COTI-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Cartesi-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF Civic-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF Convex Finance-Dollar Spot Rate	100	1%	25%	Dynamic
CF Dash-Dollar Spot Rate	10	1%	10%	Dynamic
CF Drift Protocol-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Electronic Gold-Dollar Spot Rate	10	1%	25%	Dynamic
CF Artificial Superintelligence Alliance- Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Solana Name Service- Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Gala-Dollar Spot Rate	10,000	1%	10%	Dynamic

CF Gigachad-Dollar Spot	10,000	1%	10%	Dynamic
Ratev CF GMT-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Hedera-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Helium-Dollar Spot Rate	100	1%	10%	Dynamic
CF IDEX-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF Injective-Dollar Spot Rate-				
Dollar Spot Rate	100	1%	10%	Dynamic
CF IoTeX-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF JasmyCoin-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Jito-Dollar Spot Rate	100	1%	25%	Dynamic
CF Jupiter-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Kusama-Dollar Spot Rate	10	1%	25%	Dynamic
CF Lido-Dollar Spot Rate	100	1%	10%	Dynamic
CF Mask Network-Dollar Spot Rate	100	1%	10%	Dynamic
CF Mina-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Numeraire-Dollar Spot Rate	100	1%	25%	Dynamic
CF Origin Protocol-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Optimism-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Orca-Dollar Spot Rate	100	1%	10%	Dynamic
CF Pepe-Dollar Spot Rate	100,000,000	1%	10%	Dynamic
CF Perpetual Protocol-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Powerledger-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Pyth Network-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Radworks-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF SuperRare-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF Render-Dollar Spot Rate	100	1%	10%	Dynamic
CF iExec RLC-Dollar Spot Rate	100	1%	10%	Dynamic
CF Rocket Pool-Dollar Spot Rate	100	1%	10%	Dynamic
CF Sei-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF SKALE-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF Spell Token-Dollar Spot Rate	1,000,000	1%	10%	Dynamic

CF Storj-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Starknet-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Stacks-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF SuperVerse-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Swell Network-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Synapse-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Celestia-Dollar Spot Rate	100	1%	10%	Dynamic
CF TrueFi-Dollar Spot Rate	10,000	1%	25%	Dynamic
CF UMA-Dollar Spot Rate	100	1%	10%	Dynamic
CF Dogwifhat-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF Onyxcoin-Dollar Spot Rate	10,000	1%	10%	Dynamic
CF Zcash-Dollar Spot Rate	10	1%	10%	Dynamic
CF ZetaChain-Dollar Spot Rate	1,000	1%	10%	Dynamic
CF LayerZero-Dollar Spot Rate	100	1%	10%	Dynamic
CF Ox Protocol-Dollar Spot Rate	1,000	1%	25%	Dynamic
CF Cronos-Dollar Spot Rate	10,000	1%	10%	Dynamic

7 Spot Rate Specifications

The following tables summarize the specifications for the currently supported CF Spot Rates:

Administrator	CF Benchmarks Ltd
Calculation Agent	CF Benchmarks Ltd
Calculation Methodology	Real time aggregation of order book data of Constituent Exchanges
Dissemination Time	Approximately every second of each day for the entire year including weekends and holidays.

Index	Ticker Symbol	Short Description	Dissemination Precision
CF EOS-Dollar Spot Rate	EOSUSD_RTI	Instantaneous U.S. Dollar price of one EOS	0.000001 U.S. Dollars
CF PAX Gold- Dollar Spot Rate	PAXGUSD_RTI	Instantaneous U.S. Dollar Price of one PAX Gold token	0.01 U.S. Dollars
CF Orchid-Dollar Spot Rate	OXTUSD_RTI	Instantaneous U.S. Dollar price of one Orchid token	0.0001 U.S. Dollars
CF Basic Attention Token- Dollar Spot Rate	BATUSD_RTI	Instantaneous U.S. Dollar price of one BAT	0.000001 U.S. Dollars
CF Dai-Dollar Spot Rate	DAIUSD_RTI	Instantaneous U.S. Dollar price of one Dai	0.00001 U.S. Dollars
CF Compound- Dollar Spot Rate	COMPUSD_RTI	Instantaneous U.S. Dollar price of one Compound	0.001 U.S. Dollars
CF Dogecoin- Dollar Spot Rate	DOGEUSD_RTI	Instantaneous U.S. Dollar price of one Dogecoin	0.0000001 U.S. Dollars
CF Maker-Dollar Spot Rate	MKRUSD_RTI	Instantaneous U.S. Dollar price of one Maker	0.001 US Dollars
CF TheGraph- Dollar Spot Rate	GRTUSD_RTI	Instantaneous U.S. Dollar price of one TheGraph	0.0001 US Dollars
CF YearnFinance- Dollar Spot Rate	YFIUSD_RTI	Instantaneous U.S. Dollar price of one YearnFinance	0.01 US Dollars
CF Amp-Dollar Spot Rate	AMPUSD_RTI	Instantaneous U.S. Dollar price of one Amp	0.00001 US Dollars
CF Livepeer- Dollar Spot Rate	LPTUSD_RTI	Instantaneous U.S. Dollar price of one Livepeer	0.001 US Dollars
CF Sushiswap- Dollar Spot Rate	SUSHIUSD_RTI	Instantaneous U.S. Dollar price of one Sushiswap	0.01 US Dollars

CF Sandbox- Dollar Spot Rate	SANDUSD_RTI	Instantaneous U.S. Dollar price of one Sandbox	0.0001 US Dollars
CF Rarible-Dollar Spot Rate	RARIUSD_RTI	Instantaneous U.S. Dollar price of one Rarible	0.01 US Dollars
CF Loopring- Dollar Spot Rate	LRCUSD_RTI	Instantaneous U.S. Dollar price of one Loopring	0.000001 US Dollars
CF ApeCoin- Dollar Spot Rate	APEUSD_RTI	Instantaneous U.S. Dollar price of one ApeCoin	0.00001 U.S. Dollars
CF Ethereum Classic-Dollar Spot Rate	ETCUSD_RTI	Instantaneous U.S. Dollar price of one Ethereum Classic	0.0001 U.S. Dollars
CF Shiba Inu- Dollar Spot Rate	SHIBUSD_RTI	Instantaneous U.S. Dollar price of one Shiba Inu	0.000000001 U.S. Dollars
CF Tether-Dollar Spot Rate	USDTUSD_RTI	Instantaneous U.S. Dollar price of one Tether	0.00001 U.S. Dollars
CF USD Coin- Dollar Spot Rate	USDCUSD_RTI	Instantaneous U.S. Dollar price of one USD Coin	0.00001 U.S. Dollars
CF Dash-Dollar Spot Rate	DASHUSD_RTI	Instantaneous U.S. Dollar price of one Dash	0.0001 U.S. Dollars
CF Electronic Gold-Dollar Spot Rate	EGLDUSD_RTI	Instantaneous U.S. Dollar price of one Electronic Gold	0.0001 U.S. Dollars
CF Kusama- Dollar Spot Rate	KSMUSD_RTI	Instantaneous U.S. Dollar price of one Kusama	0.0001 U.S. Dollars
CF Zcash-Dollar Spot Rate	ZECUSD_RTI	Instantaneous U.S. Dollar price of one Zcash	0.0001 U.S. Dollars
CF Akash Networ-Dollar Spot Rate	AKTUSD_RTI	Instantaneous U.S. Dollar price of one Akash Networ	0.00001 U.S. Dollars
CF Aptos-Dollar Spot Rate	APTUSD_RTI	Instantaneous U.S. Dollar price of one Aptos	0.00001 U.S. Dollars
CF Badger DAO- Dollar Spot Rate	BADGERUSD_RTI	Instantaneous U.S. Dollar price of one Badger DAO	0.00001 U.S. Dollars
CF Balancer- Dollar Spot Rate	BALUSD_RTI	Instantaneous U.S. Dollar price of one Balancer	0.00001 U.S. Dollars
CF Convex Finance-Dollar Spot Rate	CVXUSD_RTI	Instantaneous U.S. Dollar price of one Convex Finance	0.00001 U.S. Dollars
CF Helium-Dollar Spot Rate	HNTUSD_RTI	Instantaneous U.S. Dollar price of one Helium	0.00001 U.S. Dollars
CF Injective- Dollar Spot Rate- Dollar Spot Rate	INJUSD_RTI	Instantaneous U.S. Dollar price of one Injective	0.00001 U.S. Dollars
CF Jito-Dollar Spot Rate	JTOUSD_RTI	Instantaneous U.S. Dollar price of one Jito	0.00001 U.S. Dollars
CF Lido-Dollar Spot Rate	LDOUSD_RTI	Instantaneous U.S. Dollar price of one Lido	0.00001 U.S. Dollars
CF Mask Network-Dollar Spot Rate	MASKUSD_RTI	Instantaneous U.S. Dollar price of one Mask Network	0.00001 U.S. Dollars

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CF Numeraire- Dollar Spot Rate	NMRUSD_RTI	Instantaneous U.S. Dollar price of one Numeraire	0.00001 U.S. Dollars
CF Orca-Dollar Spot Rate	ORCAUSD_RTI	Instantaneous U.S. Dollar price of one Orca	0.00001 U.S. Dollars
CF Render-Dollar Spot Rate	RENDERUSD_RTI	Instantaneous U.S. Dollar price of one Render	0.00001 U.S. Dollars
CF iExec RLC- Dollar Spot Rate	RLCUSD_RTI	Instantaneous U.S. Dollar price of one iExec RLC	0.00001 U.S. Dollars
CF Rocket Pool- Dollar Spot Rate	RPLUSD_RTI	Instantaneous U.S. Dollar price of one Rocket Pool	0.00001 U.S. Dollars
CF Celestia- Dollar Spot Rate	TIAUSD_RTI	Instantaneous U.S. Dollar price of one Celestia	0.00001 U.S. Dollars
CF UMA-Dollar Spot Rate	UMAUSD_RTI	Instantaneous U.S. Dollar price of one UMA	0.00001 U.S. Dollars
CF LayerZero- Dollar Spot Rate	ZROUSD_RTI	Instantaneous U.S. Dollar price of one LayerZero	0.00001 U.S. Dollars
CF 1inch Network-Dollar Spot Rate	1INCHUSD_RTI	Instantaneous U.S. Dollar price of one 1inch Network	0.000001 U.S. Dollars
CF Adventure Gold-Dollar Spot Rate	AGLDUSD_RTI	Instantaneous U.S. Dollar price of one Adventure Gold	0.000001 U.S. Dollars
CF API3-Dollar Spot Rate	API3USD_RTI	Instantaneous U.S. Dollar price of one API3	0.000001 U.S. Dollars
CF Band Protocol-Dollar Spot Rate	BANDUSD_RTI	Instantaneous U.S. Dollar price of one Band Protocol	0.000001 U.S. Dollars
CF Biconomy- Dollar Spot Rate	BICOUSD_RTI	Instantaneous U.S. Dollar price of one Biconomy	0.000001 U.S. Dollars
CF Blur-Dollar Spot Rate	BLURUSD_RTI	Instantaneous U.S. Dollar price of one Blur	0.000001 U.S. Dollars
CF Drift Protocol- Dollar Spot Rate	DRIFTUSD_RTI	Instantaneous U.S. Dollar price of one Drift Protocol	0.000001 U.S. Dollars
CF Artificial Superintelligence Alliance-Dollar Spot Rate	FETUSD_RTI	Instantaneous U.S. Dollar price of one Artificial Superintelligence Alliance	0.000001 U.S. Dollars
CF Solana Name Service-Dollar Spot Rate	FIDAUSD_RTI	Instantaneous U.S. Dollar price of one Solana Name Service	0.000001 U.S. Dollars
CF Hedera-Dollar Spot Rate	HBARUSD_RTI	Instantaneous U.S. Dollar price of one Hedera	0.000001 U.S. Dollars
CF Jupiter-Dollar Spot Rate	JUPUSD_RTI	Instantaneous U.S. Dollar price of one Jupiter	0.000001 U.S. Dollars
CF Mina-Dollar Spot Rate	MINAUSD_RTI	Instantaneous U.S. Dollar price of one Mina	0.000001 U.S. Dollars
CF Optimism- Dollar Spot Rate	OPUSD_RTI	Instantaneous U.S. Dollar price of one Optimism	0.000001 U.S. Dollars
CF Perpetual Protocol-Dollar Spot Rate	PERPUSD_RTI	Instantaneous U.S. Dollar price of one Perpetual Protocol	0.000001 U.S. Dollars

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		Instantoneous II C. Dellar price of	0.000001 U.S.
CF Powerledger- Dollar Spot Rate	POWRUSD_RTI	Instantaneous U.S. Dollar price of one Powerledger	Dollars
CF Pyth Network- Dollar Spot Rate	PYTHUSD_RTI	Instantaneous U.S. Dollar price of one Pyth Network	0.000001 U.S. Dollars
CF Radworks- Dollar Spot Rate	RADUSD_RTI	Instantaneous U.S. Dollar price of one Radworks	0.000001 U.S. Dollars
CF Sei-Dollar Spot Rate	SEIUSD_RTI	Instantaneous U.S. Dollar price of one Sei	0.000001 U.S. Dollars
CF Storj-Dollar Spot Rate	STORJUSD_RTI	Instantaneous U.S. Dollar price of one Storj	0.000001 U.S. Dollars
CF Starknet- Dollar Spot Rate	STRKUSD_RTI	Instantaneous U.S. Dollar price of one Starknet	0.000001 U.S. Dollars
CF Stacks-Dollar Spot Rate	STXUSD_RTI	Instantaneous U.S. Dollar price of one Stacks	0.000001 U.S. Dollars
CF SuperVerse- Dollar Spot Rate	SUPERUSD_RTI	Instantaneous U.S. Dollar price of one SuperVerse	0.000001 U.S. Dollars
CF Synapse- Dollar Spot Rate	SYNUSD_RTI	Instantaneous U.S. Dollar price of one Synapse	0.000001 U.S. Dollars
CF Dogwifhat- Dollar Spot Rate	WIFUSD_RTI	Instantaneous U.S. Dollar price of one Dogwifhat	0.000001 U.S. Dollars
CF ZetaChain- Dollar Spot Rate	ZETAUSD_RTI	Instantaneous U.S. Dollar price of one ZetaChain	0.000001 U.S. Dollars
CF Ox Protocol- Dollar Spot Rate	ZRXUSD_RTI	Instantaneous U.S. Dollar price of one Ox Protocol	0.000001 U.S. Dollars
CF Alchemy Pay- Dollar Spot Rate	ACHUSD_RTI	Instantaneous U.S. Dollar price of one Alchemy Pay	0.0000001 U.S. Dollars
CF Ankr-Dollar Spot Rate	ANKRUSD_RTI	Instantaneous U.S. Dollar price of one Ankr	0.0000001 U.S. Dollars
CF ARPA Network-Dollar Spot Rate	ARPAUSD_RTI	Instantaneous U.S. Dollar price of one ARPA Network	0.0000001 U.S. Dollars
CF Celer Network-Dollar Spot Rate	CELRUSD_RTI	Instantaneous U.S. Dollar price of one Celer Network	0.0000001 U.S. Dollars
CF COTI-Dollar Spot Rate	COTIUSD_RTI	Instantaneous U.S. Dollar price of one COTI	0.0000001 U.S. Dollars
CF Cartesi-Dollar Spot Rate	CTSIUSD_RTI	Instantaneous U.S. Dollar price of one Cartesi	0.0000001 U.S. Dollars
CF Civic-Dollar Spot Rate	CVCUSD_RTI	Instantaneous U.S. Dollar price of one Civic	0.0000001 U.S. Dollars
CF Gala-Dollar Spot Rate	GALAUSD_RTI	Instantaneous U.S. Dollar price of one Gala	0.0000001 U.S. Dollars
CF Gigachad- Dollar Spot Ratev	GIGAUSD_RTI	Instantaneous U.S. Dollar price of one Gigachadv	0.0000001 U.S. Dollars
CF GMT-Dollar Spot Rate	GMTUSD_RTI	Instantaneous U.S. Dollar price of one GMT	0.0000001 U.S. Dollars
CF IDEX-Dollar Spot Rate	IDEXUSD_RTI	Instantaneous U.S. Dollar price of one IDEX	0.0000001 U.S. Dollars
CF IoTeX-Dollar Spot Rate	IOTXUSD_RTI	Instantaneous U.S. Dollar price of one IoTeX	0.0000001 U.S. Dollars

CF JasmyCoin-	JASMYUSD_RTI	Instantaneous U.S. Dollar price of	0.0000001 U.S.
Dollar Spot Rate		one JasmyCoin	Dollars
CF Origin Protocol-Dollar Spot Rate	OGNUSD_RTI	Instantaneous U.S. Dollar price of one Origin Protocol	0.0000001 U.S. Dollars
CF SuperRare-	RAREUSD_RTI	Instantaneous U.S. Dollar price of	0.0000001 U.S.
Dollar Spot Rate		one SuperRare	Dollars
CF SKALE-Dollar	SKLUSD_RTI	Instantaneous U.S. Dollar price of	0.0000001 U.S.
Spot Rate		one SKALE	Dollars
CF Swell Network-Dollar Spot Rate	SWELLUSD_RTI	Instantaneous U.S. Dollar price of one Swell Network	0.0000001 U.S. Dollars
CF TrueFi-Dollar	TRUUSD_RTI	Instantaneous U.S. Dollar price of	0.0000001 U.S.
Spot Rate		one TrueFi	Dollars
CF Onyxcoin- Dollar Spot Rate	XCNUSD_RTI	Instantaneous U.S. Dollar price of one Onyxcoin	0.0000001 U.S. Dollars
CF Spell Token-	SPELLUSD_RTI	Instantaneous U.S. Dollar price of	0.000000001
Dollar Spot Rate		one Spell Token	U.S. Dollars
CF Bonk-Dollar	BONKUSD_RTI	Instantaneous U.S. Dollar price of	0.0000000001
Spot Rate		one Bonk	U.S. Dollars
CF Pepe-Dollar	PEPEUSD_RTI	Instantaneous U.S. Dollar price of	0.00000000001
Spot Rate		one Pepe	U.S. Dollars
CF Cronos-Dollar	CROUSD_RTI	Instantaneous U.S. Dollar price of	0.00001 U.S.
Spot Rate		one Cronos	Dollars



8 Methodology Review and Changes

This methodology is subject to internal review by the Administrator and the Oversight Function at least annually.

Any changes to this methodology are overseen by the Oversight Function, and in accordance with EU BMR Article 13.

All *material* changes to the methodology shall only be implemented after a consultation process with users and relevant stakeholders that shall be conducted according to the Administrator's policies and overseen by the Oversight Function.

Should the Administrator deem it necessary to cease providing any of the Spot Rates it shall only do so after a consultation process with users and relevant stakeholders that shall be conducted according to the Administrator's policies and overseen by the Oversight Function.



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