



CoinShares Hourly Reference Rates

Benchmark Statement

May 10^{th} , 2024

Table of Contents

1	General Info	rmation							 								2
2	Index Descri	ption Object	ive						 								2
3	Regulatory I	nformation							 								2
4	Index Metho	dology							 								3
		odology Sun															
	4.2 Select	ted Exchange	es						 								3
	4.3 Data	Sources							 								3
	4.4 Index	Disruption	- Extra	ordina	ry (even	its .		 								3
5	Amendment																
6	Cessation of	the Index $$.							 								4
7	Disclaimer .								 								ŗ

1 General Information

Index Family Name: CoinShares Hourly Reference Rates

Initial Date of Publication: July 1st, 2021

Index Owner: Coinshares

Index Administrator : Compass Financial Technologies (France)

Index Calculation Agent: Compass Financial Technologies (France)

2 Index Description Objective

The CoinShares Hourly Reference Rates represent transparent cryptocurrency reference prices with independent governance and oversight.

The CoinShares Hourly Reference Rates are computed hourly, every day of the year. They are calculated at the end of every hour and are published around 5 minutes after the end of the hour.

The CoinShares Hourly Reference Rates can be accessed online on the Compass Financial Technologies website (www.compass-ft.com), Coinshares website (www.coinshares.com) or on Bloomberg or Refinitiv.

The CoinShares Hourly Reference Rates have been designed to provide institutional investors with independent and robust cryptocurrency reference prices. Based on a resilient and BMR compliant methodology, they serve as independent and transparent reference prices to value cryptocurrency portfolio.

The CoinShares Hourly Reference Rates are available for the following cryptocurrencies:

CoinShares Hourly Reference Rates									
Index	Bloomberg Code	Refinitiv Code							
CoinShares Bitcoin Hourly Reference Rate - Continuous	CSBTCHR Index	.CSBTCHR							
CoinShares Bitcoin Hourly Reference Rate - 4pm Fixing	CSBTC16R Index	N/A							

Table 1: CoinShares Hourly Reference Rates Publication Codes

3 Regulatory Information

The CoinShares Hourly Reference Rates are non-significant benchmarks according to EU Regulation 2016/1011 given:

- 1. it is not used directly or indirectly within a combination of benchmarks as a reference for financial instruments or financial contracts or for measuring the performance of investments funds having a total average value of at least EUR 50 billion on the basis of all the range of maturities or tenors of the benchmark, where applicable, over a period of six months; and
- 2. it has market-led substitutes and, in the event that the benchmark ceases to be provided or is provided on the basis of input data no longer fully representative of the underlying market or economic reality or unreliable input data, the benchmark administrator does not anticipate a significant and adverse impact on market integrity, financial stability, consumers, the real economy or the financing of households or businesses in the EU.

4 Index Methodology

4.1 Methodology Summary

Each day, the CoinShares Hourly Reference Rates are calculated based on the collection of all observable transactions and order books snapshots of all respective Selected Exchanges. The calculation methodology of the CoinShares Hourly Reference Rate level for each cryptocurrency on each date and for each hour follow the steps below:

- 1. All the published trades on Selected Exchanges for each cryptocurrency against USD are used in the hourly reference rate calculation.
- 2. On each Selected Exchange, the exchange trades are grouped into a number of equally-sized 1-minute time intervals.
- 3. For each 1-minute interval and on each exchange, the interval price is calculated as the volume-weighted trade price.
- 4. For each hour and for each exchange, the exchange fixing price is calculated as the average of the available 1-minute intervals.
- 5. CoinShares Hourly Reference Rate is calculated as the weighted average of all the exchange fixing prices. The CoinShares Hourly Reference Rates Steering Committee reviews the list of exchanges and the weight allocated to each exchange whenever it appears necessary. In case where the exchanges list is amended and/or the weights change, the index rebalances based on the new Selected Exchanges list and the new weights on the next weekday following the index committee decision.

4.2 Selected Exchanges

The CoinShares Hourly Reference Rates pricing methodology is performed through tracking a subset of exchanges. The Selected Exchanges list and the weighting allocation by exchange are defined by the CoinShares Hourly Reference Rates Steering Committee based on liquidity and reputation constraints. The CoinShares Hourly Reference Rates Steering Committee can review this list and the weights as necessary as possible. In case of changes in Selected Exchange list or weights, the index rebalances based on the new Selected Exchanges list and the weighting allocation by exchange on the next weekday following the index committee decision.

The most recent Selected Exchanges list and Weights are available on the Compass website (www.compass-ft.com).

4.3 Data Sources

The hourly and daily price levels of CoinShares Hourly Reference Rates are calculated using historical tick-by-tick trade data and order book sourced directly from eligible exchanges.

4.4 Index Disruption - Extraordinary events

"Index Disruption Event" or "Extraordinary Event" means, in the determination of the Index Administrator, the occurrence of any of the following events affecting the Index:

- 1. Temporary loss of sufficient data
- 2. Index Contributor default to provide the input data on time
- 3. The Index Administrator considers that the Index Contributor cannot pursue its role as Index Contributor

If an Index disruption or an Extraordinary event occurs, the Index Administrator will take any appropriate action to remedy the disruption.

5 Amendment to the Index methodology

The Index methodology may be supplemented, amended in whole or in part, revised or withdrawn at any time. Supplements, amendments, revisions and withdrawals may also lead to changes in the way the Index is compiled or calculated or affect the Index in another way. In the absence of exceptional circumstances affecting the Index calculation or methodology, the Index is reviewed annually. Changes in Index methodology decided during the annual review will be published on the Compass website (www.compass-ft.com).

The Index Administrator shall inform Index licensees of any amendment to the Index methodology with reasonable prior notice. The notification document shall provide Index licensees with the amendments, the reasons for making such amendment and the effective date of the changes.

6 Cessation of the Index

The Index Administrator has established procedures to be followed for termination of a CoinShares Hourly Reference Rate. Any termination of a CoinShares Hourly Reference Rate must be approved in advance by the Index Committee. A notice to licensees will be published in advance of the termination. Before disactivating an index, the Index Administrator always determines whether there are any listed financial products issued on that index as the underlying. The Index Administrator terminates indices only provided that:

- All existing commercial customers have been consulted, and commercial relationships have been terminated or transitioned accordingly.
- Consultations with stakeholders have not led to the decision to continue the index.

The Index Administrator is not responsible for determining or offering an alternative index to its subscribers or other stakeholders when the Index is terminated. However, the Index Administrator may recommend an alternative index if it considers, based on various criteria, that this alternative index could be a credible substitute index.

7 Disclaimer

Nothing contained herein shall constitute or shall be deemed to constitute a financial, legal, tax or other advice of any kind, or a solicitation to purchase, sell or invest in any financial products or to engage in any financial strategy. Compass Financial Technologies SA or any of its affiliates ("Compass") (i) does not guarantee the adequacy, the accuracy, the timeliness, the completeness, the evolution and/or the movements of its indices or any data included therein (the "Rates"), (ii) shall not have any liability for any errors, omissions, delays or interruptions therein and (iii) makes no warranty, express or implied, as to results to be obtained by owners of any securities, or by any other person or entity from the use of the Indices. Compass does not make any express or implied warranties, and expressly disclaims, all warranties of merchantability or fitness for a particular purpose or use with respect to the Indices. Without limiting any of the foregoing, in no event shall Compass have any liability for any lost profits or indirect, punitive, special or consequential damages or losses, even if notified of the possibility thereof.

CoinShares and the CoinShares Astronaut are trademarks and/or service marks of CoinShares (Holdings) Limited. The CoinShares Group owns the proprietary rights in the CoinShares Hourly Reference Rates (the "Rates").

This document constitutes the provision of factual information only and has been prepared from sources believed to be reliable. Nothing in this document shall constitute or be construed as financial advice or as an investment recommendation or as the offering of a financial product by CoinShares or any of its affiliates. The information provided in this document is impersonal and is not directed at any particular person or group of persons. Past performance is not an indication of future results. The data included in this document are for illustrative purposes only. Back-tested performance is not actual performance.

Nothing within this document constitutes investment, legal, tax or any other advice. This document should not be used as the basis for any investment decision(s) which a reader thereof may be considering. Any potential investor in digital assets, even if experienced and affluent, is strongly recommended to seek independent financial advice upon the merits of the same in the context of their own unique circumstances.

It is not possible to invest directly in an index. The information about the Rates in this document should not be considered as sufficient information to make an investment decision. Exposure may be available through a financial product based on the Rates. A prospective investor is advised to carefully consider the risks contained in the offering document that is prepared by or on behalf of the issuer of the financial product. Inclusion or removal of an exchange in this document is not a recommendation by CoinShares to use, or not use as the case maybe, such exchange.

No part of the content of this document may be reproduced, distributed, modified, or reverse-engineered in any form by any means, or stored in a database or retrieval system, without the prior written consent of CoinShares. This information shall not be used for any unlawful or unauthorized purposes. CoinShares and its affiliates, its licensors and its third-party data providers (collectively the Rates Parties) do not guarantee the accuracy, completeness, timeliness or availability of the content in this document. The Rates Parties are not responsible for any errors or omissions, regardless of the cause, for the results obtained from the use of this document. THE CONTENT IS PROVIDED ON AN AS IS BASIS. THE RATES PARTIES DIS-CLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENTS FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE CONTENT WILL OPERATE WITH ANY SOFTWARE OR HARDWARE CONFIGURATION. In no event shall the Rates Parties be liable to any party for any direct, indirect, incidental, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs) in connection with any use of the content in this document even if advised of the possibility or likelihood of such damages. This does not exclude or restrict any duty or liability that CoinShares has under applicable legislation.

CoinShares and its affiliated entities may sponsor, endorse, sell, promote or manage financial products that seek to provide an investment return based on the performance of the Rates. CoinShares expects to receive compensation in connection with licensing the Rates to third parties. CoinShares, its affiliated companies, their Directors, and investment funds operated by CoinShares may be investors in companies mentioned in this document.

You will require a license from CoinShares to launch any financial product that is linked or refers to the Rates, uses the data of the Rates for any business purpose and/or for any other use of the Rates. CoinShares Capital Markets (UK) Limited is an appointed representative of Strata Global Ltd. which is authorised and regulated by the Financial Conduct Authority (FRN 563834). The address of CoinShares Capital Markets (UK) Limited is Octagon Point, 5 Cheapside, St. Paul's, London, EC2V 6AA.

©2021 CoinShares. All rights reserved. This document and its contents may not be forwarded, redistributed or reproduced in whole or in part without the prior written consent of CoinShares.



Compass Financial Technologies SA

Chemin de Mornex 6 1003 Lausanne, Switzerland

Compass Financial Technologies (France)

106, Rue de Richelieu 75002 Paris, France

info@compass-ft.com