



# CME CF Cryptocurrency Pricing Products

Constituent Exchanges List

Version: 11.1

Version Date: 22<sup>nd</sup> November 2022

## Version History

Version	Date Issued	Summary of Change
1	November 2016	N/A
2	May 2018	Expanded to include multiple cryptocurrencies
3	August 2018	Renamed GDAX to Coinbase Pro in line with branding changes by Coinbase
3.1	25 <sup>th</sup> January 2019	Temporary suspension of itBit
3.2	1 <sup>st</sup> February 2019	Lifted suspension of itBit
4	12 <sup>th</sup> July 2019	Rebrand to CF Benchmarks
5	15 <sup>th</sup> July 2019	Addition of itBit to: <ul style="list-style-type: none"> <li>• CME CF Ether-Dollar Reference Rate</li> <li>• CME CF Ether-Dollar Real Time Index</li> </ul>
5.1	30 <sup>th</sup> August 2019	Addition of Gemini to: <ul style="list-style-type: none"> <li>• CME CF Bitcoin Reference Rate</li> <li>• CME CF Bitcoin Real Time Index</li> <li>• CME CF Ether-Dollar Reference Rate</li> <li>• CME CF Ether-Dollar Real Time Index</li> </ul>
6	11 <sup>th</sup> September 2019	Update legal text with BMR registration
7	28 <sup>th</sup> October 2019	Addition of Coinbase to: <ul style="list-style-type: none"> <li>• CME CF Ether-Dollar Reference Rate</li> <li>• CME CF Ether-Dollar Real Time Index</li> </ul>
8	20 <sup>th</sup> May 2020	Update copyright
9	28 <sup>th</sup> February 2022	Addition of: <ul style="list-style-type: none"> <li>• New York Variants to BRR and ETHUSD_RR</li> </ul>

10	25 <sup>th</sup> April 2022	<p>Addition of:</p> <ul style="list-style-type: none"> <li>• CME CF Litecoin - Dollar Reference Rate</li> <li>• CME CF Litecoin - Dollar Real Time Index</li> <li>• CME CF Bitcoin Cash - Dollar Reference Rate</li> <li>• CME CF Bitcoin Cash - Dollar Real Time Index</li> <li>• CME CF Cardano - Dollar Reference Rate</li> <li>• CME CF Cardano - Dollar Real Time Index</li> <li>• CME CF Algorand - Dollar Reference Rate</li> <li>• CME CF Algorand - Dollar Real Time Index</li> <li>• CME CF Cosmos - Dollar Reference Rate</li> <li>• CME CF Cosmos - Dollar Real Time Index</li> <li>• CME CF Polkadot - Dollar Reference Rate</li> <li>• CME CF Polkadot - Dollar Real Time Index</li> <li>• CME CF Polygon - Dollar Reference Rate</li> <li>• CME CF Polygon - Dollar Real Time Index</li> <li>• CME CF Stellar Lumens - Dollar Reference Rate</li> <li>• CME CF Stellar Lumens - Dollar Real Time Index</li> <li>• CME CF Solana - Dollar Reference Rate</li> <li>• CME CF Solana - Dollar Real Time Index</li> <li>• CME CF Uniswap - Dollar Reference Rate</li> <li>• CME CF Uniswap - Dollar Real Time Index</li> <li>• CME CF Chainlink - Dollar Reference Rate</li> <li>• CME CF Chainlink - Dollar Real Time Index</li> </ul>
10.1	3 <sup>rd</sup> May 2022	<p>Addition of LMAX Digital to:</p> <ul style="list-style-type: none"> <li>• CME CF Bitcoin Reference Rate</li> <li>• CME CF Bitcoin Reference Rate – New York Variant</li> <li>• CME CF Bitcoin Real Time Index</li> <li>• CME CF Ether-Dollar Reference Rate</li> <li>• CME CF Ether-Dollar Reference Rate - New York Variant</li> <li>• CME CF Ether-Dollar Real Time Index</li> </ul>
11	31 <sup>st</sup> October 2022	<p>Addition of:</p> <ul style="list-style-type: none"> <li>• CME CF Bitcoin - Euro Reference Rate</li> <li>• CME CF Bitcoin - Euro Real Time Index</li> <li>• CME CF Ether - Euro Reference Rate</li> </ul>

		<ul style="list-style-type: none"> <li>• CME CF Ether - Euro Real Time Index</li> <li>• CME CF Avalanche - Dollar Reference Rate</li> <li>• CME CF Avalanche - Dollar Real Time Index</li> <li>• CME CF Filecoin - Dollar Reference Rate</li> <li>• CME CF Filecoin - Dollar Real Time Index</li> <li>• CME CF Tezos - Dollar Reference Rate</li> <li>• CME CF Tezos - Dollar Reference Rate</li> </ul>
11.1	22 <sup>nd</sup> November 2022	<p>Addition of LMAX Digital to:</p> <ul style="list-style-type: none"> <li>• CME CF Litecoin - Dollar Reference Rate</li> <li>• CME CF Litecoin - Dollar Real Time Index</li> <li>• CME CF Bitcoin Cash - Dollar Reference Rate</li> <li>• CME CF Bitcoin Cash - Dollar Real Time Index</li> </ul> <p>Addition of Gemini to:</p> <ul style="list-style-type: none"> <li>• CME CF Solana - Dollar Reference Rate</li> <li>• CME CF Solana - Dollar Real Time Index</li> </ul>

## Constituent Exchanges

Cryptocurrency trading venues<sup>1</sup> are verified against the CME CF Constituent Exchange Criteria by the Administrator under the oversight of the CME CF Cryptocurrency Pricing Products Oversight Committee to serve as pricing sources for the calculation of a CME CF Cryptocurrency Reference Rate or CME CF Cryptocurrency Real Time Index, collectively known as the CME CF Cryptocurrency Pricing Products.

### Constituent Exchanges List

Index Name	CME CF Bitcoin Reference Rate			CME CF Ether – Dollar Reference Rate		
Ticker Symbol	BRR & BRRNY			ETHUSD_RR & ETHUSD_NY		
Index Name	CME CF Bitcoin Real Time Index			CME CF Ether – Dollar Real Time Index		
Ticker Symbol	BRTI			ETHUSD_RTI		
Constituent Exchanges	CE Name	Added	Suspended	CE Name	Added	Suspended
	Bitfinex	14-Nov-16	Apr-17	Bitstamp	14-May-18	
	Bitstamp	14-Nov-16		Kraken	14-May-18	
	Coinbase	14-Nov-16		itBit	15-Jul-19	
	itBit	14-Nov-16	25-Jan-19 (BRR only)	Gemini	30-Aug-19	
		01-Feb-19		Coinbase	28-Oct-19	
	Kraken	14-Nov-16		LMAX Digital	03-May-19	
	OKCoin.com (HK)	14-Nov-16	Apr-17			
	Gemini	30-Aug-19				
	LMAX Digital	03-May-21				

<sup>1</sup> Constituent Exchanges are published on the Administrator's website <https://www.cfbenchmarks.com> as well on the CME Group webpage <https://www.cmegroup.com/cryptocurrencies>. Details on Constituent Exchange Criteria can be found at: <https://www.cmegroup.com/cryptocurrencies>.

\* Includes trades and orders from Coinbase, Coinbase Pro and Coinbase Prime

<b>Index Name</b>	CME CF Litecoin – Dollar Reference Rate			CME CF Bitcoin Cash – Dollar Reference Rate		
<b>Ticker Symbol</b>	LTCUSD_RR			BCHUSD_RR		
<b>Index Name</b>	CME CF Litecoin – Dollar Real Time Index			CME CF Bitcoin Cash – Dollar Real Time Index		
<b>Ticker Symbol</b>	LTCUSD_RTI			BCHUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Bitstamp	25-Apr-22		Bitstamp	25-Apr-22	
	Coinbase	25-Apr-22		Coinbase	25-Apr-22	
	Gemini	25-Apr-22		Gemini	25-Apr-22	
	Kraken	25-Apr-22		Kraken	25-Apr-22	
	LMAX Digital	22-Nov-22		LMAX Digital	22-Nov-22	

<b>Index Name</b>	CME CF Cardano – Dollar Reference Rate			CME CF Algorand – Dollar Reference Rate		
<b>Ticker Symbol</b>	ADAUSD_RR			ALGOUSD_RR		
<b>Index Name</b>	CME CF Cardano – Dollar Real Time Index			CME CF Algorand – Dollar Real Time Index		
<b>Ticker Symbol</b>	ADAUSD_RTI			ALGOUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Coinbase	25-Apr-22		Coinbase	25-Apr-22	
	Kraken	25-Apr-22		Kraken	25-Apr-22	

<b>Index Name</b>	CME CF Cosmos – Dollar Reference Rate			CME CF Polkadot – Dollar Reference Rate		
<b>Ticker Symbol</b>	ATOMUSD_RR			DOTUSD_RR		
<b>Index Name</b>	CME CF Cosmos – Dollar Real Time Index			CME CF Polkadot – Dollar Real Time Index		
<b>Ticker Symbol</b>	ATOMUSD_RTI			DOTUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Coinbase	25-Apr-22		Coinbase	25-Apr-22	
	Kraken	25-Apr-22		Kraken	25-Apr-22	

<b>Index Name</b>	CME CF Polygon – Dollar Reference Rate			CME CF Stellar Lumens – Dollar Reference Rate		
<b>Ticker Symbol</b>	MATICUSD_RR			XLMUSD_RR		
<b>Index Name</b>	CME CF Polygon – Dollar Real Time Index			CME CF Stellar Lumens – Dollar Real Time Index		
<b>Ticker Symbol</b>	MATICUSD_RTI			XLMUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Coinbase	25-Apr-22		Coinbase	25-Apr-22	
	Gemini	25-Apr-22		Gemini	25-Apr-22	
	Kraken	25-Apr-22		Kraken	25-Apr-22	

<b>Index Name</b>	CME CF Solana – Dollar Reference Rate			CME CF Uniswap – Dollar Reference Rate		
<b>Ticker Symbol</b>	SOLUSD_RR			UNIUSD_RR		
<b>Index Name</b>	CME CF Solana – Dollar Real Time Index			CME CF Uniswap – Dollar Real Time Index		
<b>Ticker Symbol</b>	SOLUSD_RTI			UNIUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Coinbase	25-Apr-22		Coinbase	25-Apr-22	
	Kraken	25-Apr-22		Kraken	25-Apr-22	
	Gemini	22-Nov-22				

<b>Index Name</b>	CME CF Chainlink – Dollar Reference Rate			CME CF Bitcoin – Euro Reference Rate		
<b>Ticker Symbol</b>	LINKUSD_RR			BTCEUR_RR		
<b>Index Name</b>	CME CF Chainlink – Dollar Real Time Index			CME CF Bitcoin – Euro Real Time Index		
<b>Ticker Symbol</b>	LINKUSD_RTI			BTCEUR_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Coinbase	25-Apr-22		Bitstamp	06-Jun-22	
	Bitstamp	25-Apr-22		Coinbase	06-Jun-22	
	Gemini	25-Apr-22		Kraken	06-Jun-22	
	Kraken	25-Apr-22		LMAX Digital	06-Jun-22	

<b>Index Name</b>	CME CF Ether – Euro Reference Rate			CME CF Filecoin – Dollar Reference Rate		
<b>Ticker Symbol</b>	ETHEUR_RR			FILUSD_RR		
<b>Index Name</b>	CME CF Ether – Euro Real Time Index			CME CF Filecoin – Dollar Real Time Index		
<b>Ticker Symbol</b>	ETHEUR_RTI			FILUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Bitstamp	06-Jun-22		Coinbase	31-Oct-22	
	Coinbase	06-Jun-22		Gemini	31-Oct-22	
	Kraken	06-Jun-22		Kraken	31-Oct-22	
	LMAX Digital	06-Jun-22				

<b>Index Name</b>	CME CF Avalanche – Dollar Reference Rate			CME CF Tezos – Dollar Reference Rate		
<b>Ticker Symbol</b>	AVAXUSD_RR			XTZUSD_RR		
<b>Index Name</b>	CME CF Avalanche – Dollar Real Time Index			CME CF Tezos – Dollar Real Time Index		
<b>Ticker Symbol</b>	AVAXUSD_RTI			XTZUSD_RTI		
<b>Constituent Exchanges</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>	<b>CE Name</b>	<b>Added</b>	<b>Suspended</b>
	Coinbase	31-Oct-22		Coinbase	31-Oct-22	
	Kraken	31-Oct-22		Kraken	31-Oct-22	

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