Cboe Clear US Margin Files v2.1

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Contents

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1 Change History

Date	Message(s) or Section	Description
20231102		Version 1.0
20241107		Version 2.0 Cboe Clear US updates
20250304		Version 2.1 Clearing CFE Changes

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2 General Concepts

Please contact Cboe Clear US business development representatives (clearus.sales@cboe.com) or the Cboe Clear US membership team (clearus.membership@cboe.com) for more information on this documentation.

2.1 Rate Limiting

Requests are throttled per IP address. Limit: 5 requests in a 10 second period.

When the rate limit is exceeded, a response with status **429 -> Too Many Requests** is returned.

If the limit is exceeded the IP address will be restricted from making new requests for 60 seconds.

We highly recommend adding logic to your application to gracefully process the 429 Too Many Requests message. We suggest that if the limit is breached, your application pauses for the required time to be within the rate limiting again. An application that repeatedly breaches the limit will keep extending the restricted period, thus, preventing your application from functioning correctly again.

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3 Public Files API Service

Cboe Clear US offers a public API service that can be used to retrieve certain publicly available files programmatically.

3.1 REST API Endpoint URL

- Production : https://publicfiles.cboedigital.com/prdpublicfiles
- New Release (test) : https://publicfiles.newrelease.cboedigital.com/nrlpublicfiles

3.2 File Types

The following file types will be available in the Public Files API Service (all times in U.S. Central Time):

- settlements
  - Created for the Midday settlement shortly after 12:15pm and for the End of Day settlement shortly after 4:15pm containing the settlement prices.
- MARKET_DATA
  - Created around 8:45am and 8:30pm containing Volume, OHLC prices, and OI data.
- MARGIN_RATES_APPROVED
  - Created around 3:40pm containing base margin rates for all contracts in the next trading session.
- CNTRCT (Contracts)
  - Created around 6:00pm including a list of all Contracts available for clearing.

3.3 List Available Files

This endpoint will be used by users to retrieve for a given day, the list of files that are available to be retrieved.

- HTTP Request Type: GET
- **Endpoint:** /{YYYY}/{MM}/{DD}/index.txt

Inputs

Field	Req'd	Value
YYYY	Y	Year. Format: YYYY
MM	Y	Month. Format: MM
DD	Y	Day. Format: DD

Example Request:

```
import requests

url = "https://publicfiles.cboedigital.com/prdpublicfiles/2024/11/25/index.txt"


response = requests.request("GET", url)
print(response.text)
```

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Output

List of files available for the given date

Example Response:

```
CNTRCT_20241125_20241126000004.csv
MARGIN_RATES_APPROVED_20241125_20241125214012.csv
MARKET_DATA_20241125_20241126023010.csv
MARKET_DATA_20241125_20241126144514.csv
settlements_END_OF_DAY_20241125_20241125221542.csv
settlements_MID_DAY_20241125_20241125181527.csv
```

3.4 Get File

This endpoint will be used to retrieve a file.

- HTTP Request Type: GET
- **Endpoint:** /{YYYY}/{MM}/{DD}/{filename}

Inputs

Field	Req'd	Value
YYYY	Y	Year. Format: YYYY
MM	Y	Month. Format: MM
DD	Y	Day. Format: DD
filename	Y	Name of the file to be retrieved

Example Request:

```
import requests

url =
"https://publicfiles.cboedigital.com/prdpublicfiles/2024/11/25/settlements_END_OF_DAY_20
241125_20241125221542.csv"

response = requests.request("GET", url)
print(response.text)
```

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Output

File in csv format.

Example Response:

```
Record
Date,RecordType,ContractCode,MaturityYear,MaturityMonth,Maturity/ExpirationD
ate,Cap,SettlementPrice,BaseCurrency,QuoteCurrency,ExchangeRate,Exchange

2025-04-17,FSP,FETM25,2025,6,20250627,,1603.5,TETH,USD,1603.5,XCBD
2025-04-17,FSP,FETM25,2025,6,20250627,,1590.3,TETH,USD,1590.3,XCBF
2025-04-17,FSP,FBTM25,2025,6,20250627,,85133.0,TBTC,USD,85133.0,XCBD
2025-04-17,FSP,FBTM25,2025,6,20250627,,84958.0,TBTC,USD,84958.0,XCBF
2025-04-17,FSP,FETK25,2025,5,20250530,,1603.3,TETH,USD,1603.3,XCBD
2025-04-17,FSP,FETK25,2025,5,20250530,,1606.3,TETH,USD,1606.3,XCBF
2025-04-17,FSP,FBTK25,2025,5,20250530,,85072.0,TBTC,USD,85072.0,XCBD
2025-04-17,FSP,FBTK25,2025,5,20250530,,84961.0,TBTC,USD,84961.0,XCBF
2025-04-17,FSP,FETJ25,2025,4,20250425,,1603.4,TETH,USD,1603.4,XCBD
2025-04-17,FSP,FETJ25,2025,4,20250425,,1606.0,TETH,USD,1606.0,XCBF
2025-04-17,FSP,FBTJ25,2025,4,20250425,,85066.0,TBTC,USD,85066.0,XCBD
2025-04-17,FSP,FBTJ25,2025,4,20250425,,84934.0,TBTC,USD,84934.0,XCBF
```

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4 File Formats

4.1 Settlement Prices

A summary report of settlement prices.

	Field	Description	Format
1	Record Date	Date for which the settlement prices apply	YYYY-MM-DD
2	RecordType	FSP = Futures Settlement Price	String
3	ContractCode	Contract code	String
4	MaturityYear	Contract Maturity year	YYYY
5	MaturityMonth	Contract Maturity month	m
6	Maturity/ExpirationDate	Contract Maturity Date	YYYYMMDD
7	Cap	*Not currently used*	Decimal
8	SettlementPrice	Settlement price	Decimal
9	BaseCurrency	Base currency	String
10	QuoteCurrency	Quote currency	String
11	ExchangeRate	Futures Settlement Price	Decimal
12	Exchange	Exchange MIC where the contract is traded	String

4.2 Market Data

A summary of volume, open interest and other metrics for a given date.

	Field	Description	Format
1	Date	Date for the data in the file	YYYY-MM-DD
2	Product	Clearing Product Code	String
3	Contract	Clearing Contract code	String
4	ExpirationDate	Contract Maturity Expiration Date (Futures Only)	YYYY-MM-DD
5	Number of Trades	Number of trades for the trade date	Decimal
6	Volume	Volume traded for the trade date	Decimal
7	OI	Open Interest	Decimal
8	Block Volume	Volume registered as Block trades	Decimal
9	EFP Volume	Volume registered as EFP trades	Decimal
10	Settlement Price	Settlement Price for the trade date	Decimal
11	Open	The opening price for the trade date (Empty if no trades)	Decimal
12	High	The highest price traded for the trade date (Empty if no trades)	Decimal
13	Low	The lowest price traded for the trade date (Empty if no trades)	Decimal
14	Close	The Closing price for the trade date (Empty if no trades)	Decimal
15	Contracts Delivered	Number of contracts that we delivered upon at expiration	Decimal
16	Sub Exchange	*Not currently used*	Decimal
17	Lower Bound	Price Boundary of a contract (Previously used for fully funded - not applicable to margin)	Decimal
18	Upper Bound	Price Boundary of a contract (Previously used for fully funded - not applicable to margin)	Decimal
19	Exchange	Exchange MIC where the contract is traded	String

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4.3 Margin Rates Approved

A summary of volume, open interest and other metrics for a given date.

	Field	Description	Format
1	Date	Effective Trade Date for the margin rates, noting the rates are used for the most recently ended trade date's End of Day margin requirements.	D/M/YYYY
2	Product	Clearing Product Code	String
3	Contract	Clearing Contract code	String
4	Contract 2	2nd Contract populated for spread margin amounts	String
5	Initial Margin	Initial margin for a position	Decimal
6	Maintenance Margin	Maintenance margin requirement	Decimal
7	Margin Currency	Currency in which the margin is charged	String
8	Exchange	Exchange MIC where the contract is traded	String

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4.4 Contracts

A summary report of contracts available for clearing

	Field	Description	Format
1	Product	Clearing Product Code	String
2	Base Currency	Base Currency	String
3	Quote Currency	Quote Currency	String
4	Minimum Block Size	The minimum size required for a block trade	Decimal
5	Tick Size	Minimum price increment for regular trade	Decimal
6	Cap	*Not currently used*	Decimal
7	CFTC Reporting Limit	Regulatory Large Trader Reporting Limit	Decimal
8	Exchange Reportable Limit	Exchange Large Trader Reporting Limit	Decimal
9	Maximum Reportable Limit	Position Limit	Decimal
10	Contract	Exchange Code in Clearing	String
11	Contract Code	Clearing Contract code	MMM YY
12	Contract Description	Description of the contract	String
13	Contract Size	Unit of base currency per futures contract	Decimal
14	First Trade Date	First Trade Date	YYYY-MM-DD
15	Last Trade Date	Last Trade Date	YYYY-MM-DD
16	Settlement Period	Expected time in hours after expiry which final VM will be calculated	Decimal
17	Expiration Date	Date of Contract Expiry	YYYY-MM-DD
18	Expiration Time	Date and Time of Contract Expiry	YYYY-MM_DDTHH:MM:000Z
19	Delivery	Delivery type	String
20	Cycle	Typical contract expiry cycle	String
21	Product Type	Product type = Futures	String
22	Allow Block	Block Trades are supported	Boolean
23	Sub Exchange	*Not currently used*	String
24	CFTC 102B Reporting Limit	Regulatory reporting CFTC 102B Reporting Limit	Decimal
25	Exchange	Exchange MIC where the contract is traded	String
24	File Generated…	Header description of when the file was created	String

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