



Market Data Production

Specifications Documentation

APIs to access Market Data

Market Data 1.0.0 OAS3

Trader API - Market data

Contact Schwab Trader API team

Servers

https://api.schwabapi.com/marketdata/v1

Authorize



Quotes Get Quotes Web Service.



GET /quotes Get Quotes by list of symbols.



GET /{symbol_id}/quotes Get Quote by single symbol.



Option Chains Get Option Chains Web Service.



GET /chains Get option chain for an optionable Symbol



Option Expiration Chain Get Option Expiration Chain Web Service.



GET /expirationchain Get option expiration chain for an optionable symbol



PriceHistory Get Price History Web Service.



GET /pricehistory Get PriceHistory for a single symbol and date ranges.



Parameters

[Cancel](#)

Name

Description

symbol * required

string

(query)

The Equity symbol used to look up price history

AAPL

periodType

string

(query)

The chart period being requested.

year

period

integer(\$int32)

(query)

The number of chart period types.

If the periodType is

- **day** - valid values are 1, 2, 3, 4, 5, 10
- **month** - valid values are 1, 2, 3, 6
- **year** - valid values are 1, 2, 3, 5, 10, 15, 20
- **ytd** - valid values are 1

If the period is not specified and the periodType is

- **day** - default period is 10.
- **month** - default period is 1.
- **year** - default period is 1.
- **ytd** - default period is 1.

5

frequencyType

string

(query)

The time frequencyType

If the periodType is

- **day** - valid value is minute
- **month** - valid values are daily, weekly
- **year** - valid values are daily, weekly, monthly
- **ytd** - valid values are daily, weekly

If frequencyType is not specified, default value depends on the periodType

- **day** - defaulted to minute.
- **month** - defaulted to weekly.
- **year** - defaulted to monthly.
- **ytd** - defaulted to weekly.

daily



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The time frequency duration

If the frequencyType is

- **minute** - valid values are 1, 5, 10, 15, 30
- **daily** - valid value is 1
- **weekly** - valid value is 1
- **monthly** - valid value is 1

If frequency is not specified, default value is **1**`startDate``integer($int64)``(query)`The start date, Time in milliseconds since the UNIX epoch eg
1451624400000

If not specified startDate will be (endDate - period) excluding weekends and holidays.

`endDate``integer($int64)``(query)`The end date, Time in milliseconds since the UNIX epoch eg
1451624400000

If not specified, the endDate will default to the market close of previous business day.

`needExtendedHoursData``boolean``(query)`

Need extended hours data

`needPreviousClose``boolean``(query)`

Need previous close price/date

Responses

Curl

```
curl -X 'GET' \
'https://api.schwabapi.com/marketdata/v1/pricehistory?symbol=AAPL&periodType=year&period=5&frequencyType=d'
```



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Request URL

https://api.schwabapi.com/marketdata/v1/pricehistory?
symbol=AAPL&periodType=year&period=5&frequencyType=daily&frequency=1

Server response

Code Details

200

Response body

```
{
  "symbol": "AAPL",
  "empty": false,
  "candles": [
    {
      "open": 119.55,
      "high": 120.6741,
      "low": 118.96,
      "close": 119.39,
      "volume": 74270973,
      "datetime": 1605592800000
    },
    {
      "open": 118.61,
      "high": 119.82,
      "low": 118,
      "close": 118.03,
      "volume": 76322111,
      "datetime": 1605679200000
    },
    {
      "open": 117.59,
```

Download

Response headers

```
cache-control: no-store
content-length: 30552
content-type: application/json
expires: -1
pragma: no-cache
```

Responses

Code	Description	Links
200	Get all candles for given date range	No links

Media type

application/json

Examples

Search by symbol AAPL

Controls Accept header.

Example Value Schema

```
{
  "symbol": "AAPL",
  "empty": false,
  "previousClose": 174.56,
  "previousCloseDate": 1639029600000,
  "candles": [
```



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```
open : 175.01,
"high": 175.15,
"low": 175.01,
"close": 175.04,
"volume": 10719,
"datetime": 1639137600000
},
{
  "open": 175.08,
  "high": 175.09,
  "low": 175.05,
  "close": 175.05,
  "volume": 500,
  "datetime": 1639137660000
}
```

400

Error response for generic client error 400

No links

Media type

application/json

Example Value Schema

```
{
  "errors": [
    {
      "id": "6808262e-52bb-4421-9d31-6c0e762e7dd5",
      "status": "400",
      "title": "Bad Request",
      "detail": "Missing header",
      "source": {
        "header": "Authorization"
      }
    },
    {
      "id": "0be22ae7-efdf-44d9-99f4-f138049d76ca",
      "status": "400",
      "title": "Bad Request",
      "detail": "Search combination should have min of 1.",
      "source": {
        "pointer": [
          "/data/attributes/symbols",
          "/data/attributes/cusips",
          "/data/attributes/ssids"
        ]
      }
    }
  ]
}
```

Headers:

Name	Description	Type
Schwab-Client-CorrelId	This Correlation ID is unique to the operation. The GUID that is generated can be used to track an individual service call if support is needed.	string Example: 977dbd7f-992e-44d2-a5f4-e213d29c8691
Schwab-Resource-Version	This is the requested API version.	string Example: 1

401

Error response for 401 Unauthorized

No links



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media type

application/json

Example Value [Schema](#)

```
{
  "errors": [
    {
      "status": 401,
      "title": "Unauthorized",
      "id": "0be22ae7-efdf-44d9-99f4-f138049d76ca"
    }
  ]
}
```

Headers:

Name	Description	Type
Schwab-Client-CorrelId	This Correlation ID is unique to the operation. The GUID that is generated can be used to track an individual service call if support is needed.	string Example: 977dbd7f-992e-44d2-a5f4-e213d29c8691
Schwab-Resource-Version	This is the <i>requested API version</i> .	string Example: 1

404

Error response for 404 Not Found

No links

Media type

application/json

Example Value [Schema](#)

```
{
  "errors": [
    {
      "status": 404,
      "title": "Not Found",
      "id": "0be22ae7-efdf-44d9-99f4-f138049d76ca"
    }
  ]
}
```

Headers:

Name	Description	Type
Schwab-Client-CorrelId	This Correlation ID is unique to the operation. The GUID that is generated can be used to track an individual service call if support is needed.	string Example: 977dbd7f-992e-44d2-a5f4-e213d29c8691
Schwab-Resource-Version	This is the <i>requested API version</i> .	string Example: 1



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Error response for 500 Internal Server Error

Media type

application/json

Example Value Schema

```
{
  "errors": [
    {
      "id": "0be22ae7-efdf-44d9-99f4-f138049d76ca",
      "status": 500,
      "title": "Internal Server Error"
    }
  ]
}
```

Headers:

Name	Description	Type
Schwab-Client-CorrelId	This Correlation ID is unique to the operation. The GUID that is generated can be used to track an individual service call if support is needed.	string Example: 977dbd7f-992e-44d2-a5f4-e213d29c8691
Schwab-Resource-Version	This is the requested API version.	string Example: 1

Movers

Get Movers Web Service.

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GET

/movers/{symbol_id}

Get Movers for a specific index.

▼

🔒

MarketHours

Get MarketHours Web Service.

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GET

/markets

Get Market Hours for different markets.

▼

🔒

GET

/markets/{market_id}

Get Market Hours for a single market.

▼

🔒

Instruments

Get Instruments Web Service.

^

GET

/instruments

Get Instruments by symbols and projections.

▼

🔒

GET

/instruments/{cusip_id}

Get Instrument by specific cusip

▼

🔒