



## Developer Portal

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API Products Trader API - Individual Market Data Production

### 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.





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Parameters

[Cancel](#)

Name	Description
<b>symbol</b> * required	The Equity symbol used to look up price history
string (query)	AAPL
periodType	The chart period being requested.
string (query)	year
period	The number of chart period types.
integer(\$int32) (query)	If the periodType is <ul style="list-style-type: none"> <li><b>day</b> - valid values are 1, 2, 3, 4, 5, 10</li> <li><b>month</b> - valid values are 1, 2, 3, 6</li> <li><b>year</b> - valid values are 1, 2, 3, 5, 10, 15, 20</li> <li><b>ytd</b> - valid values are 1</li> </ul> If the period is not specified and the periodType is <ul style="list-style-type: none"> <li><b>day</b> - default period is 10.</li> <li><b>month</b> - default period is 1.</li> <li><b>year</b> - default period is 1.</li> <li><b>ytd</b> - default period is 1.</li> </ul>
	5
frequencyType	The time frequencyType
string (query)	If the periodType is <ul style="list-style-type: none"> <li><b>day</b> - valid value is minute</li> <li><b>month</b> - valid values are daily, weekly</li> <li><b>year</b> - valid values are daily, weekly, monthly</li> <li><b>ytd</b> - valid values are daily, weekly</li> </ul> If frequencyType is not specified, default value depends on the periodType <ul style="list-style-type: none"> <li><b>day</b> - defaulted to minute.</li> <li><b>month</b> - defaulted to weekly.</li> <li><b>year</b> - defaulted to monthly.</li> <li><b>ytd</b> - defaulted to weekly.</li> </ul>
	daily



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**integer(\$int32)**
**(query)**

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,
    }
  ]
}
```

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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": [
    {
      "open": 174.56,
      "high": 175.87,
      "low": 173.25,
      "close": 174.56,
      "volume": 1234567890,
      "datetime": 1639029600000
    },
    {
      "open": 173.25,
      "high": 174.56,
      "low": 172.34,
      "close": 173.25,
      "volume": 1234567890,
      "datetime": 1639029600000
    },
    {
      "open": 172.34,
      "high": 173.25,
      "low": 171.12,
      "close": 172.34,
      "volume": 1234567890,
      "datetime": 1639029600000
    }
  ]
}
```

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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": 1639137600000

```

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-ID	This Correlation ID is unique to the operation.	string
CorrelId	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	This Correlation ID is unique to the operation.	string
CorrelId	The GUID that is generated can be used to track an individual service call if support is needed.	Example: 977dbd7f-992e-44d2-a5f4-e213d29c8691

  

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

  

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

  

Name	Description	Type
Schwab-Resource-Version	This is the requested API version.	string Example: 1

## Movers Get Movers Web Service.



**GET /movers/{symbol\_id}** Get Movers for a specific index.



## MarketHours Get MarketHours Web Service.



**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

