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Market Data Production

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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.

✓

🔒

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	✓	🔒

Schemas

^

Bond

{

cusip

[...]

symbol

[...]

description

[...]

exchange

[...]

assetType

[...]

bondFactor

[...]

bondMultiplier

[...]

bondPrice

[...]

type

[...]

}

FundamentalInst

{

symbol

[...]

high52

[...]

low52

[...]

dividendAmount

[...]

dividendYield

[...]

dividendDate

[...]

peRatio

[...]

}

pegRatio	[...]
pbRatio	[...]
prRatio	[...]
pcfRatio	[...]
grossMarginTTM	[...]
grossMarginMRQ	[...]
netProfitMarginTTM	[...]
netProfitMarginMRQ	[...]
operatingMarginTTM	[...]
operatingMarginMRQ	[...]
returnOnEquity	[...]
returnOnAssets	[...]
returnOnInvestment	[...]
quickRatio	[...]
currentRatio	[...]
interestCoverage	[...]
totalDebtToCapital	[...]
ltDebtToEquity	[...]
totalDebtToEquity	[...]
epsTTM	[...]
epsChangePercentTTM	[...]
epsChangeYear	[...]
epsChange	[...]
revChangeYear	[...]
revChangeTTM	[...]
revChangeIn	[...]
sharesOutstanding	[...]
marketCapFloat	[...]
marketCap	[...]
bookValuePerShare	[...]
shortIntToFloat	[...]
shortIntDayToCover	[...]
divGrowthRate3Year	[...]
dividendPayAmount	[...]

```

    dividendPayDate      [...]
    beta                 [...]
    vol1DayAvg           [...]
    vol10DayAvg          [...]
    vol3MonthAvg         [...]
    avg10DaysVolume      [...]
    avg1DayVolume        [...]
    avg3MonthVolume      [...]
    declarationDate      [...]
    dividendFreq         [...]
    eps                  [...]
    corpactionDate       [...]
    dtnVolume            [...]
    nextDividendPayDate  [...]
    nextDividendDate     [...]
    fundLeverageFactor   [...]
    fundStrategy         [...]
  }
```

```

Instrument {
  cusip      [...]
  symbol     [...]
  description [...]
  exchange   [...]
  assetType  [...]
  type       [...]
}
```

```
InstrumentResponse {
  cusip          [...]
  symbol         [...]
  description    [...]
  exchange       [...]
  assetType      [...]
  bondFactor     [...]
  bondMultiplier [...]
  bondPrice      [...]
  fundamental    FundamentalInst {...}
  instrumentInfo Instrument    {...}
  bondInstrumentInfo Bond      {...}
  type           [...]
}
```

```
Hours {
  date          [...]
  marketType    [...]
  exchange       [...]
  category      [...]
  product       [...]
  productName   [...]
  isOpen        [...]
  sessionHours  {...}
}
```

```
Interval  {
  start      [...]
  end        [...]
}

Screener  {
  description: Security info of most moved with in an index
  change      [...]
  description  [...]
  direction   [...]
  last        [...]
  symbol      [...]
  totalVolume  [...]
}

Candle    {
  close      [...]
  datetime   [...]
  datetimeISO8601  [...]
  high       [...]
  low        [...]
  open       [...]
  volume     [...]
}
```

```

CandleList  {
    candles                [...]
    empty                  [...]
    previousClose          [...]
    previousCloseDate      [...]
    previousCloseDateISO8601  [...]
    symbol                 [...]
}

```

```

EquityResponse  {
    description:           Quote info of Equity security
    assetMainType          AssetMainType    [...]
    assetSubType           EquityAssetSubType  [...]
    ssid                   [...]
    symbol                 [...]
    realtime               [...]
    quoteType              QuoteType        [...]
    extended               ExtendedMarket    {...}
    fundamental            Fundamental        {...}
    quote                  QuoteEquity        {...}
    reference              ReferenceEquity    {...}
    regular                RegularMarket     {...}
}

```



```

QuoteError  {
  description:      Partial or Custom errors per request

  invalidCusips      [...]
  invalidSSIDs      [...]
  invalidSymbols      [...]
}

```

```

ExtendedMarket  {
  description:      Quote data for extended hours

  askPrice          [...]
  askSize            [...]
  bidPrice           [...]
  bidSize            [...]
  lastPrice          [...]
  lastSize           [...]
  mark               [...]
  quoteTime          [...]
  totalVolume        [...]
  tradeTime          [...]
}

```

```
ForexResponse {  
  description:      Quote info of Forex security  
  
  assetMainType      AssetMainType    [...]  
  ssid                [...]  
  symbol              [...]  
  realtime           [...]  
  quote              QuoteForex    {...}  
  reference          ReferenceForex  {...}  
}
```

```
Fundamental {  
  description:      Fundamentals of a security  
  
  avg10DaysVolume    [...]  
  avg1YearVolume     [...]  
  declarationDate    [...]  
  divAmount          [...]  
  divExDate          [...]  
  divFreq            DivFreq      [...]  
  divPayAmount       [...]  
  divPayDate         [...]  
  divYield           [...]  
  eps                [...]  
  fundLeverageFactor [...]  
  fundStrategy       FundStrategy  [...]  
  nextDivExDate      [...]  
  nextDivPayDate     [...]  
  peRatio            [...]  
}
```

```
FutureOptionResponse  {  
  description:          Quote info of Future Option security  
  
  assetMainType         AssetMainType   [...]   
  ssid                  [...]   
  symbol                 [...]   
  realtime               [...]   
  quote                  QuoteFutureOption  {...}   
  reference              ReferenceFutureOption {...}   
}
```

```
FutureResponse  {  
  description:          Quote info of Future security  
  
  assetMainType         AssetMainType   [...]   
  ssid                  [...]   
  symbol                 [...]   
  realtime               [...]   
  quote                  QuoteFuture     {...}   
  reference              ReferenceFuture  {...}   
}
```

```
IndexResponse  {
  description:      Quote info of Index security
  assetMainType     AssetMainType    [...]
  ssid              [...]
  symbol            [...]
  realtime          [...]
  quote             QuoteIndex      {...}
  reference         ReferenceIndex   {...}
}
```

```
MutualFundResponse {
  description:      Quote info of MutualFund security
  assetMainType     AssetMainType    [...]
  assetSubType     MutualFundAssetSubType [...]
  ssid              [...]
  symbol            [...]
  realtime          [...]
  fundamental      Fundamental      {...}
  quote             QuoteMutualFund  {...}
  reference         ReferenceMutualFund {...}
}
```

```
OptionResponse  {  
  description:      Quote info of Option security  
  
  assetMainType      AssetMainType    [...]  
  ssid                [...]  
  symbol              [...]  
  realtime           [...]  
  quote              QuoteOption    {...}  
  reference          ReferenceOption {...}  
}
```

QuoteEquity	{
description:	Quote data of Equity security
52WeekHigh	[...]
52WeekLow	[...]
askMICId	[...]
askPrice	[...]
askSize	[...]
askTime	[...]
bidMICId	[...]
bidPrice	[...]
bidSize	[...]
bidTime	[...]
closePrice	[...]
highPrice	[...]
lastMICId	[...]
lastPrice	[...]
lastSize	[...]
lowPrice	[...]
mark	[...]
markChange	[...]
markPercentChange	[...]
netChange	[...]
netPercentChange	[...]
openPrice	[...]
quoteTime	[...]
securityStatus	[...]
totalVolume	[...]
tradeTime	[...]
volatility	[...]
	}

QuoteForex	{
description:	Quote data of Forex security
52WeekHigh	[...]
52WeekLow	[...]
askPrice	[...]
askSize	[...]
bidPrice	[...]
bidSize	[...]
closePrice	[...]
highPrice	[...]
lastPrice	[...]
lastSize	[...]
lowPrice	[...]
mark	[...]
netChange	[...]
netPercentChange	[...]
openPrice	[...]
quoteTime	[...]
securityStatus	[...]
tick	[...]
tickAmount	[...]
totalVolume	[...]
tradeTime	[...]
	}

QuoteFuture	{
description:	Quote data of Future security
askMICId	[...]
askPrice	[...]
askSize	[...]
askTime	[...]
bidMICId	[...]
bidPrice	[...]
bidSize	[...]
bidTime	[...]
closePrice	[...]
futurePercentChange	[...]
highPrice	[...]
lastMICId	[...]
lastPrice	[...]
lastSize	[...]
lowPrice	[...]
mark	[...]
netChange	[...]
openInterest	[...]
openPrice	[...]
quoteTime	[...]
quotedInSession	[...]
securityStatus	[...]
settleTime	[...]
tick	[...]
tickAmount	[...]
totalVolume	[...]
tradeTime	[...]
	}


```
QuoteFutureOption {
  description:      Quote data of Option security

  askMICId          [...]
  askPrice           [...]
  askSize            [...]
  bidMICId           [...]
  bidPrice           [...]
  bidSize            [...]
  closePrice         [...]
  highPrice          [...]
  lastMICId          [...]
  lastPrice          [...]
  lastSize           [...]
  lowPrice           [...]
  mark               [...]
  markChange         [...]
  netChange          [...]
  netPercentChange   [...]
  openInterest       [...]
  openPrice          [...]
  quoteTime          [...]
  securityStatus     [...]
  settlemetPrice     [...]
  tick               [...]
  tickAmount         [...]
  totalVolume        [...]
  tradeTime          [...]
}
```

```

QuoteIndex  {
    description:      Quote data of Index security

    52WeekHigh        [...]
    52WeekLow          [...]
    closePrice         [...]
    highPrice          [...]
    lastPrice          [...]
    lowPrice           [...]
    netChange          [...]
    netPercentChange   [...]
    openPrice          [...]
    securityStatus     [...]
    totalVolume        [...]
    tradeTime          [...]
}

```

```

QuoteMutualFund  {
    description:      Quote data of Mutual Fund security

    52WeekHigh        [...]
    52WeekLow          [...]
    closePrice         [...]
    nAV                [...]
    netChange          [...]
    netPercentChange   [...]
    securityStatus     [...]
    totalVolume        [...]
    tradeTime          [...]
}

```

```

QuoteOption  {
    description:      Quote data of Option security

```

52WeekHigh	[...]
52WeekLow	[...]
askPrice	[...]
askSize	[...]
bidPrice	[...]
bidSize	[...]
closePrice	[...]
delta	[...]
gamma	[...]
highPrice	[...]
indAskPrice	[...]
indBidPrice	[...]
indQuoteTime	[...]
impliedYield	[...]
lastPrice	[...]
lastSize	[...]
lowPrice	[...]
mark	[...]
markChange	[...]
markPercentChange	[...]
moneyIntrinsicValue	[...]
netChange	[...]
netPercentChange	[...]
openInterest	[...]
openPrice	[...]
quoteTime	[...]
rho	[...]
securityStatus	[...]
theoreticalOptionValue	[...]
theta	[...]
timeValue	[...]
totalVolume	[...]
tradeTime	[...]
underlyingPrice	[...]

```

    - - - - -
    vega                [...]
    volatility          [...]
}

```

```

QuoteRequest  {
    description:      Request one or more quote data in POST body

    cusips            [...]
    fields            [...]
    ssids             [...]
    symbols           [...]
    realtime          [...]
    indicative        [...]
}

```

```

QuoteResponse  {
    description:      a (symbol, QuoteResponse) map. SCHW is an
                     example key

    < * >:            QuoteResponseObject  {...}
}

```

```
QuoteResponseObject {
  oneOf ->
    EquityResponse {...}
    OptionResponse {...}
    ForexResponse {...}
    FutureResponse {...}
    FutureOptionResponse {...}
    IndexResponse {...}
    MutualFundResponse {...}
    QuoteError {...}
}
```

```
ReferenceEquity {
  description: Reference data of Equity security

  cusip [...]
  description [...]
  exchange [...]
  exchangeName [...]
  fsiDesc [...]
  htbQuantity [...]
  htbRate [...]
  isHardToBorrow [...]
  isShortable [...]
  otcMarketTier [...]
}
```

```
ReferenceForex  {  
    description:      Reference data of Forex security  
  
    description          [...]   
    exchange             [...]   
    exchangeName        [...]   
    isTradable           [...]   
    marketMaker         [...]   
    product              [...]   
    tradingHours        [...]   
}
```

```
ReferenceFuture  {  
    description:      Reference data of Future security  
  
    description          [...]   
    exchange             [...]   
    exchangeName        [...]   
    futureActiveSymbol   [...]   
    futureExpirationDate [...]   
    futureIsActive       [...]   
    futureMultiplier    [...]   
    futurePriceFormat    [...]   
    futureSettlementPrice [...]   
    futureTradingHours   [...]   
    product              [...]   
}
```

```
ReferenceFutureOption  {
    description:          Reference data of Future Option security

    contractType          ContractType    [...]
    description           [...]
    exchange              [...]
    exchangeName         [...]
    multiplier            [...]
    expirationDate       [...]
    expirationStyle     [...]
    strikePrice          [...]
    underlying           [...]
}
```

```
ReferenceIndex  {
    description:          Reference data of Index security

    description           [...]
    exchange              [...]
    exchangeName         [...]
}
```

```
ReferenceMutualFund  {
    description:          Reference data of MutualFund security

    cusip                  [...]
    description           [...]
    exchange              [...]
    exchangeName         [...]
}
```

```

ReferenceOption {
  description:          Reference data of Option security

  contractType          ContractType    [...]
  cusip                 [...]
  daysToExpiration      [...]
  deliverables          [...]
  description            [...]
  exchange              [...]
  exchangeName          [...]
  exerciseType          ExerciseType    [...]
  expirationDay         [...]
  expirationMonth       [...]
  expirationType        ExpirationType  [...]
  expirationYear        [...]
  isPennyPilot          [...]
  lastTradingDay        [...]
  multiplier            [...]
  settlementType        SettlementType  [...]
  strikePrice           [...]
  underlying            [...]
}

```

```

RegularMarket {
  description:          Market info of security

  regularMarketLastPrice      [...]
  regularMarketLastSize       [...]
  regularMarketNetChange      [...]
  regularMarketPercentChange  [...]
  regularMarketTradeTime      [...]
}

```


AssetMainType *string*

Instrument's asset type

Enum:

Array [8]

EquityAssetSubType *string*

nullable: true

Asset Sub Type (only there if applicable)

Enum:

Array [11]

MutualFundAssetSubType *string*

nullable: true

Asset Sub Type (only there if applicable)

Enum:

Array [4]

ContractType *string*

Indicates call or put

Enum:

Array [2]

SettlementType *string*

option contract settlement type AM or PM

Enum:

Array [2]

ExpirationType *string*

M for End Of Month Expiration Calendar Cycle. (To match the last business day of the month), Q for Quarterly expirations (last business day of the quarter month MAR/JUN/SEP/DEC), W for Weekly expiration (also called Friday Short Term Expirations) and S for Expires 3rd Friday of the month (also known as regular options).

Enum:

Array [4]

FundStrategy *string*

nullable: true

FundStrategy "A" - Active "L" - Leveraged "P" - Passive "Q" - Quantitative "S" - Short

Enum:

Array [6]

ExerciseType *string*

option contract exercise type America or European

Enum:

Array [2]

DivFreq **integer***nullable: true*

Dividend frequency 1 – once a year or annually 2 – 2x a year or semi-annually 3 – 3x a year (ex. ARCO, EBRPF) 4 – 4x a year or quarterly 6 – 6x per yr or every other month 11 – 11x a year (ex. FBND, FCOR) 12 – 12x a year or monthly

Enum:

Array [8]

QuoteType **string***nullable: true*

NBBO – realtime, NFL – Non-fee liable quote.

Enum:

Array [3]

```
ErrorResponse {
  errors          [...]
}
```

```
Error {
  id              [...]
  status          [...]
  title           [...]
  detail          [...]
  source          ErrorSource {...}
}
```

```

ErrorSource  {
    description:      Who is responsible for triggering these
                        errors.

    pointer            [...]
    parameter          [...]
    header              [...]
}

```

```

OptionChain  {
    symbol          [...]
    status          [...]
    underlying      Underlying  {...}
    strategy        [...]
    interval        [...]
    isDelayed       [...]
    isIndex         [...]
    daysToExpiration  [...]
    interestRate     [...]
    underlyingPrice  [...]
    volatility       [...]
    callExpDateMap   {...}
    putExpDateMap    {...}
}

```

```

OptionContractMap  {
    < * >:            OptionContract  {...}
}

```

```
Underlying {
  ask [...]
  askSize [...]
  bid [...]
  bidSize [...]
  change [...]
  close [...]
  delayed [...]
  description [...]
  exchangeName [...]
  fiftyTwoWeekHigh [...]
  fiftyTwoWeekLow [...]
  highPrice [...]
  last [...]
  lowPrice [...]
  mark [...]
  markChange [...]
  markPercentChange [...]
  openPrice [...]
  percentChange [...]
  quoteTime [...]
  symbol [...]
  totalVolume [...]
  tradeTime [...]
}
```

```
OptionDeliverables {
  symbol          [...]
  assetType       [...]
  deliverableUnits [...]
  currencyType    [...]
}
```

```
OptionContract {
  putCall          [...]
  symbol           [...]
  description       [...]
  exchangeName     [...]
  bidPrice         [...]
  askPrice         [...]
  lastPrice        [...]
  markPrice        [...]
  bidSize          [...]
  askSize          [...]
  lastSize         [...]
  highPrice        [...]
  lowPrice         [...]
  openPrice        [...]
  closePrice       [...]
  totalVolume      [...]
  tradeDate        [...]
  quoteTimeInLong  [...]
  tradeTimeInLong  [...]
  netChange        [...]
  volatility        [...]
  delta            [...]
  gamma            [...]
  theta            [...]
```

```
    vega                [...]
    rho                 [...]
    timeValue           [...]
    openInterest         [...]
    isInTheMoney         [...]
    theoreticalOptionValue [...]
    theoreticalVolatility [...]
    isMini               [...]
    isNonStandard         [...]
    optionDeliverablesList [...]
    strikePrice           [...]
    expirationDate         [...]
    daysToExpiration       [...]
    expirationType         ExpirationType  [...]
    lastTradingDay          [...]
    multiplier              [...]
    settlementType           SettlementType  [...]
    deliverableNote          [...]
    isIndexOption             [...]
    percentChange              [...]
    markChange                 [...]
    markPercentChange          [...]
    isPennyPilot               [...]
    intrinsicValue              [...]
    optionRoot                  [...]
  }
```

```
ExpirationChain {
  status          [...]
  expirationList   [...]
}
```

```
Expiration {
  description:      expiration type
  daysToExpiration  [...]
  expiration        [...]
  expirationType    ExpirationType [...]
  standard          [...]
  settlementType    SettlementType  [...]
  optionRoots      [...]
}
```

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