



Market API

Overview

The Market APIs provide information about market events.

Look Up Product [↗](#)

Description

This API returns a list of securities of a specified type (e.g., equity stock) based on a full or partial match of any part of the company name. For instance, a search for "jones" returns a list of securities associated with "Jones Soda Co", "Stella Jones Inc", and many others. The list contains the company name, the exchange that lists the security, the security type, and the symbol, for as many matches as are found. The result may include some unexpected matches, because the search includes more than just the display version of the company name. For instance, searching on "etrade" returns securities for "E TRADE" - notice the space in the name. This API is for searching on the company name, not a security symbol. It's commonly used to look up a symbol based on the company name, e.g., "What is the symbol for Google stock?". To look up company information based on a symbol, or to find detailed information on a security, use the quote API.

HTTP Method: GET

Live URL

`p/{search}`

`https://api.etrade.com/v1/market/lookup/{search}`



Sandbox URL

up/{search}

<https://apisb.etrade.com/v1/market/lookup/{search}>



Request

Property	Type	Required?	Description
search	path	yes	The search request

Response

Status Code	Reason
200	Successful operation.
400	The symbol entered is invalid. Please
400	Missing symbol. Please enter valid s
400	Unauthorized access to this API is r
400	Error getting the product details.

Get Option Chains [↗](#)

Description

This API returns a list of option chains for a specific underlying instrument. The request must specify an instrument, the month the option expires, and whether you are interested in calls, puts, or both. Values returned include the option pair count and information about each option pair, including the type, call count, symbol, product, date, and strike price..

HTTP Method: GET

Live URL

https://api.etrade.com/v1/market/optionchains?symbol={symbol}

Sandbox URL

https://apisb.etrade.com/v1/market/optionchains?symbol={symbol}

Request

Property	Type	Required?	Description
symbol	query	yes	The market symbol
expiryYear	query	no	Indicates the expiry year
expiryMonth	query	no	Indicates the expiry month
expiryDay	query	no	Indicates the expiry day
strikePriceNear	query	no	The option's strike price near
noOfStrikes	query	no	Indicates number of strikes
includeWeekly	query	no	The include weekly
skipAdjusted	query	no	The skip adjusted
optionCategory	query	no	The option category
chainType	query	no	The type of chain
priceType	query	no	The price type

Response

Status Code	Reason
200	Successful operation.
400	Invalid option type. Please provide
400	There are no options for the given r
400	Please provide a valid option type.
400	Invalid option type in OSI key. Pleas
400	The Symbol entered is invalid. Plea
400	There are no options available for tl
400	No options are available for this syr
400	Missing symbol. Please enter valid :
400	Unauthorized access to this API is r
400	Invalid category. Please provide val
400	Error getting the product details.
400	Top five quotes are not available at
400	There are no standard options avail
400	Error getting the ExpirationDates d
400	Please provide valid expiration date
400	Mini options not available for this s

Get Option Expire Dates [↗](#)

Description

Returns a list of dates suitable for structuring an option table display. The dates are used to group option data (returned by the optionchains method) for a specified underlier, creating a table display.

HTTP Method: GET

Live URL



```
https://api.etrade.com/v1/market/option
expiredate?symbol={symbol}
```


Sandbox URL



```
https://apisb.etrade.com/v1/market/opti
onexpiredate?symbol={symbol}
```

Request

Property	Type	Required?	Description
expiryType	query	no	Expiration type o
symbol	query	yes	The symbol in the



Response

Status Code	Reason
200	Successful operation.
400	Invalid option type. Please provide
400	There are no options for the given i
400	Please provide a valid option type.
400	Invalid option type in OSI key. Pleas
400	The Symbol entered is invalid. Plea
400	There are no options available for tl
400	No options are available for this syr
400	Missing symbol. Please enter valid :
400	Unauthorized access to this API is r

Status Code	Reason
400	Invalid category. Please provide val
400	Error getting the product details.
400	Top five quotes are not available at
400	There are no standard options avail
400	Error getting the ExpirationDates d
400	Please provide valid expiration date
400	Mini options not available for this s

Data [↗](#)

Property	Type	Description
symbol	string	The market symbol for the se
description	string	The text description of the s
type	string	The symbol type

ExpirationDate [↗](#)

Property	Type	Description
year	integer (int32)	The four-digit year th
month	integer (int32)	The month (1-12) the
day	integer (int32)	The day (1-31) the op
expiryType	string	Expiration type of th

LookupResponse [↗](#)

Property	Type	Description
data	array[Data]	The lookup response data

OptionChainPair [↗](#)

Property	Type	Description
optioncall	OptionDetails	The option call in the chain
optionput	OptionDetails	The option put in the chain
pairType	string	Determines whether the pair is call or put

OptionChainResponse [↗](#)

Property	Type	Description
optionPairs	array[OptionChainPair]	Container for the option chain
timeStamp	integer (int64)	The option chain timestamp
quoteType	string	The option chain quote type
nearPrice	number	The near price
selected	SelectedED	The selected option chain

OptionDetails [↗](#)

Property	Type	Description
optionCategory	string	The option category
optionRootSymbol	string	The root symbol


Property	Type	Descriptio
timeStamp	integer (int64)	The times
adjustedFlag	boolean	Indicator :
displaySymbol	string	The displa
optionType	string	The option
strikePrice	number (double)	The agree
symbol	string	The mark
bid	number (double)	The bid
ask	number (double)	The ask
bidSize	integer	The bid si
askSize	integer	The ask si
inTheMoney	string	The "in the
volume	integer	The option
openInterest	integer	The open
netChange	number (double)	The net cl
lastPrice	number (double)	The last p
quoteDetail	string	The option
osiKey	string	The Optio
optionGreek	OptionGreeks	The Greek

OptionExpireDateResponse [↗](#)

Property	Type	Descript
expirationDates	array[ExpirationDate]	The expi


OptionGreeks

Property	Type	Description
rho	number	The rho value
vega	number	The vega value
theta	number	The theta value
delta	number	The delta value
gamma	number	The gamma value
iv	number	The Implied Volatility (IV)
currentValue	boolean	The current value



SelectedED

Property	Type	Description
month	integer (int32)	The selected month
year	integer (int32)	The selected year
day	integer (int32)	The selected day



Example

Look Up Product Request URL

<https://api.etrade.com/v1/market/lookup/a>



Response



```
<?xml version="1.0" encoding="UTF-8"?>
<LookupResponse>
  <Data>
    <symbol>A</symbol>
    <description>AGILENT TECHNOLOGIES INC COM</descriptio
n>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>AA</symbol>
    <description>ALCOA CORP COM</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>AABA</symbol>
    <description>ALTABA INC COM</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>AAPL</symbol>
    <description>APPLE INC COM</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>ABBV</symbol>
    <description>ABBVIE INC COM</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>ABEV</symbol>
    <description>AMBEV SA SPONSORED ADR</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>ABT</symbol>
    <description>ABBOTT LABS COM</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>ACN</symbol>
    <description>ACCENTURE PLC IRELAND SHS CLASS A</descr
ption>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>ADBE</symbol>
    <description>ADOBE SYS INC COM</description>
    <type>EQUITY</type>
  </Data>
  <Data>
    <symbol>ADP</symbol>
    <description>AUTOMATIC DATA PROCESSING INC COM</descr
ption>
    <type>EQUITY</type>
  </Data>
</LookupResponse>
```

Get Option Chains Request URL

```
https://api.etrade.com/v1/market/optionchains?symbol=IBM&expiryYear=2018&expiryMonth=08&strikePriceNear=200&noOfStrike  
s=2
```



Response



```
<?xml version="1.0" encoding="UTF-8"?>
<OptionChainResponse>
  <OptionPair>
    <Call>
      <optionCategory>STANDARD</optionCategory>
      <optionRootSymbol>IBM</optionRootSymbol>
      <timeStamp>1529430484</timeStamp>
      <adjustedFlag>>false</adjustedFlag>
      <displaySymbol>IBM Aug 17 '18 $200 Call</displaySym
mbol>
      <optionType>CALL</optionType>
      <strikePrice>200.0</strikePrice>
      <symbol>IBM</symbol>
      <bid>0.0</bid>
      <ask>0.05</ask>
      <bidSize>0</bidSize>
      <askSize>138</askSize>
      <inTheMoney>n</inTheMoney>
      <volume>0</volume>
      <openInterest>0</openInterest>
      <netChange>0.0</netChange>
      <lastPrice>0.0</lastPrice>
      <quoteDetail>https://api.etrade.com/v1/market/quot
e/IBM:2018:8:17:CALL:200.000000</quoteDetail>
      <osiKey>IBM---180817C00200000</osiKey>
      <OptionGreeks>
        <rho>0.001000</rho>
        <vega>0.008600</vega>
        <theta>-0.002000</theta>
        <delta>0.004900</delta>
        <gamma>0.000800</gamma>
        <iv>0.314500</iv>
        <currentValue>>true</currentValue>
      </OptionGreeks>
    </Call>
    <Put>
      <optionCategory>STANDARD</optionCategory>
      <optionRootSymbol>IBM</optionRootSymbol>
      <timeStamp>1529431379</timeStamp>
      <adjustedFlag>>false</adjustedFlag>
      <displaySymbol>IBM Aug 17 '18 $200 Put</displaySym
bol>
      <optionType>PUT</optionType>
      <strikePrice>200.0</strikePrice>
      <symbol>IBM</symbol>
      <bid>0.0</bid>
      <ask>0.0</ask>
      <bidSize>0</bidSize>
      <askSize>0</askSize>
      <inTheMoney>y</inTheMoney>
      <volume>0</volume>
      <openInterest>0</openInterest>
      <netChange>0.0</netChange>
      <lastPrice>0.0</lastPrice>
      <quoteDetail>https://api.etrade.com/v1/market/quot
e/IBM:2018:8:17:PUT:200.000000</quoteDetail>
```

```

        <osiKey>IBM---180817P00200000</osiKey>
        <OptionGreeks>
            <rho>-0.278200</rho>
            <vega>0.015300</vega>
            <theta>-0.000200</theta>
            <delta>-0.991400</delta>
            <gamma>0.001300</gamma>
            <iv>0.348400</iv>
            <currentValue>>true</currentValue>
        </OptionGreeks>
    </Put>
</OptionPair>
<OptionPair>
    <Call>
        <optionCategory>STANDARD</optionCategory>
        <optionRootSymbol>IBM</optionRootSymbol>
        <timeStamp>1529431379</timeStamp>
        <adjustedFlag>>false</adjustedFlag>
        <displaySymbol>IBM Aug 17 '18 $205 Call</displaySy
mbol>
        <optionType>CALL</optionType>
        <strikePrice>205.0</strikePrice>
        <symbol>IBM</symbol>
        <bid>0.0</bid>
        <ask>0.0</ask>
        <bidSize>0</bidSize>
        <askSize>0</askSize>
        <inTheMoney>n</inTheMoney>
        <volume>0</volume>
        <openInterest>0</openInterest>
        <netChange>0.0</netChange>
        <lastPrice>0.0</lastPrice>
        <quoteDetail>https://api.etrade.com/v1/market/quot
e/IBM:2018:8:17:CALL:205.000000</quoteDetail>
        <osiKey>IBM---180817C00205000</osiKey>
        <OptionGreeks>
            <rho>0.000800</rho>
            <vega>0.007100</vega>
            <theta>-0.001700</theta>
            <delta>0.003900</delta>
            <gamma>0.000600</gamma>
            <iv>0.327500</iv>
            <currentValue>>true</currentValue>
        </OptionGreeks>
    </Call>
    <Put>
        <optionCategory>STANDARD</optionCategory>
        <optionRootSymbol>IBM</optionRootSymbol>
        <timeStamp>1529431379</timeStamp>
        <adjustedFlag>>false</adjustedFlag>
        <displaySymbol>IBM Aug 17 '18 $205 Put</displaySym
bol>
        <optionType>PUT</optionType>
        <strikePrice>205.0</strikePrice>
        <symbol>IBM</symbol>
        <bid>0.0</bid>
        <ask>0.0</ask>
        <bidSize>0</bidSize>
        <askSize>0</askSize>

```

```

    <inTheMoney>y</inTheMoney>
    <volume>0</volume>
    <openInterest>0</openInterest>
    <netChange>0.0</netChange>
    <lastPrice>0.0</lastPrice>
    <quoteDetail>https://api.etrade.com/v1/market/quote/IBM:2018:8:17:PUT:205.000000</quoteDetail>
    <osiKey>IBM---180817P00205000</osiKey>
    <OptionGreeks>
      <rho>-0.282200</rho>
      <vega>0.034800</vega>
      <theta>-0.008300</theta>
      <delta>-0.974900</delta>
      <gamma>0.002400</gamma>
      <iv>0.442700</iv>
      <currentValue>>true</currentValue>
    </OptionGreeks>
  </Put>
</OptionPair>
<timeStamp>1529430420</timeStamp>
<quoteType>DELAYED</quoteType>
<nearPrice>200.0</nearPrice>
<SelectedED>
  <day>17</day>
  <month>8</month>
  <year>2018</year>
</SelectedED>
</OptionChainResponse>

```

Get Option Expire Dates Request URL

<https://api.etrade.com/v1/market/optionexpiredate?symbol=GOOG&expiryType=ALL>

Response



```
<?xml version="1.0" encoding="UTF-8"?>
<OptionExpireDateResponse>
  <ExpirationDate>
    <year>2018</year>
    <month>6</month>
    <day>22</day>
    <expiryType>WEEKLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>6</month>
    <day>29</day>
    <expiryType>WEEKLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>7</month>
    <day>6</day>
    <expiryType>WEEKLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>7</month>
    <day>13</day>
    <expiryType>WEEKLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>7</month>
    <day>20</day>
    <expiryType>MONTHLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>7</month>
    <day>27</day>
    <expiryType>WEEKLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>8</month>
    <day>17</day>
    <expiryType>MONTHLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>9</month>
    <day>21</day>
    <expiryType>MONTHLY</expiryType>
  </ExpirationDate>
  <ExpirationDate>
    <year>2018</year>
    <month>12</month>
    <day>21</day>
    <expiryType>MONTHLY</expiryType>
  </ExpirationDate>
```

```
<ExpirationDate>
  <year>2019</year>
  <month>1</month>
  <day>18</day>
  <expiryType>MONTHLY</expiryType>
</ExpirationDate>
<ExpirationDate>
  <year>2019</year>
  <month>6</month>
  <day>21</day>
  <expiryType>MONTHLY</expiryType>
</ExpirationDate>
<ExpirationDate>
  <year>2020</year>
  <month>1</month>
  <day>17</day>
  <expiryType>MONTHLY</expiryType>
</ExpirationDate>
</OptionExpireDateResponse>
```

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