



# 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

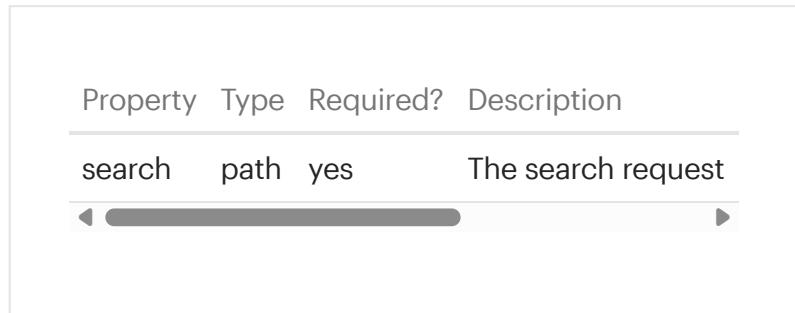
 [https://api.etrade.com/v1/market/lookup  
{search}](https://api.etrade.com/v1/market/lookup/{search})

## Sandbox URL



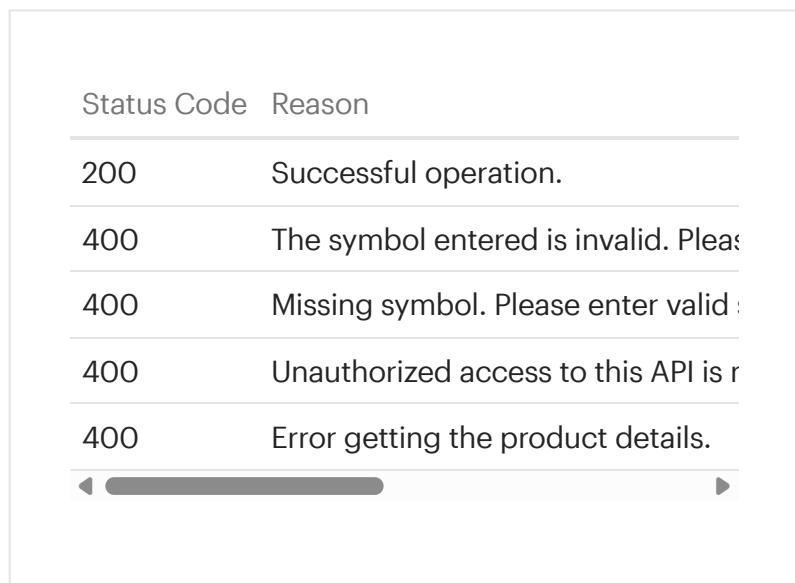
The screenshot shows a browser window with the URL `https://apisb.etrade.com/v1/market/lookup/{search}` in the address bar. The browser interface includes a back button, forward button, and a search bar.

## 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 enter valid symbol.
400	Missing symbol. Please enter valid symbol.
400	Unauthorized access to this API is restricted.
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:
expiryYear	query	no	Indicates th
expiryMonth	query	no	Indicates th
expiryDay	query	no	Indicates th
strikePriceNear	query	no	The optionc
noOfStrikes	query	no	Indicates nu
includeWeekly	query	no	The include
skipAdjusted	query	no	The skip adj
optionCategory	query	no	The option c
chainType	query	no	The type of
priceType	query	no	The price ty

### 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
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/optionexpiredate?symbol={symbol}>

## Sandbox URL

<https://apisb.etrade.com/v1/market/optionexpiredate?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 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 th
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 se
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 pair
optionPut	OptionDetails	The option put in the pair
pairType	string	Determines whether the pair is a call/put or a spread

## OptionChainResponse ↗

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

## OptionDetails ↗

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

Property	Type	Description
timeStamp	integer (int64)	The times
adjustedFlag	boolean	Indicator:
displaySymbol	string	The display
optionType	string	The option
strikePrice	number (double)	The agree
symbol	string	The market
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 ch
lastPrice	number (double)	The last p
quoteDetail	string	The option
osiKey	string	The Option
optionGreek	OptionGreeks	The Greek

## OptionExpireDateResponse ↗

Property	Type	Description
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</description>
  </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</description>
    <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</description>
    <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&noOfStrikes=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</displaySymbol>
      <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-quote/IBM:2018:8:17:CALL:200.00000</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</displaySymbol>
      <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-quote/IBM:2018:8:17:PUT:200.00000</quoteDetail>
    </Put>
  </OptionPair>
</OptionChainResponse>
```

```
<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/quote/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:205.00000</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=GO&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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