



FXCM Socket REST API User Guide

Revision History		
Version	Last Updated	Comments
2.4.0	06/23/2021	Server socketIO update
2.3.0	03/11/2021	Added new 'trailing' fields
2.2.0	05/18/2020	Fix Missing Params in Models
2.1.5	3/23/2020	Fix the market data display error
2.1.4	1/15/2020	Replace socketio_client python library with python-socketio library.
2.1.3	May 1, 2019	Added explanation of request parameter types and updated socket.io connection description.

2.1.2	Feb 9, 2019	Fixed reference error on page 6. Price updates are now sent as milliseconds. Added more information about Orders table, including tradeld. Removed unused fields from trading tables. Added more information on close_trade, change_order, delete_order, change_trade_stop_limit and change_order_stop_limit functions. Added candle limit information to historical data.
2.1.1	Feb 6, 2019	Remove offer, leverage profile and properties from list of possible tables to be subscribed to
2.1	Feb 2, 2019	Added enumeration descriptions in trading tables and array descriptions for price updates
2.0	Jan 16, 2018	Clean up after OAuth removal and re-add get_instruments, update_subscriptions
1.9	Sept 13, 2017	Add table description on appendix
1.8	July 29, 2017	Begin modifying requests to POST versions and standardizing style
1.7	July 27, 2017	Remove sample code, replaced by sample program (will be upload to github for public access), to make documents nice and neat.
1.6	July 27, 2017	Change accountId to account_id
1.5	July 25, 2017	Remove /trading/changePassword
1.4	June 28, 2017	Replaced GET functions with POST, PATCH /DELETE
1.3	June 27, 2017	Removed command line and redundant functions
1.2	June 26, 2017	Add Historical data
1.2	June 22, 2017	
1.0	May 15, 2017	Added response, requests, diagrams, sample code

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1 Overview

FXCM offers a web-based REST API which can be used to establish secure connectivity with FXCM’s trading systems for the purpose of receiving market data and trading.

This document provides an overview of this API, optional tools and sample implementations.

2 Getting Started

2.1 Prerequisites

To use the REST API, you will need:

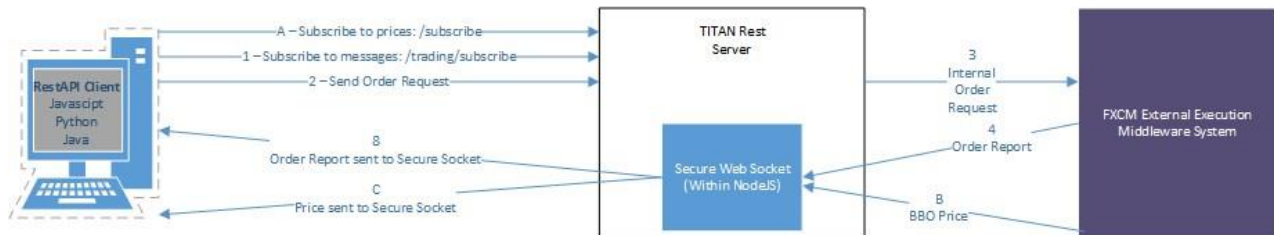
- Access Token generated with Trading Station Web <https://tradingstation.fxcm.com/>
- Socket.IO client library: <https://socket.io/docs/client-api/> ○ using JavaScript: <https://www.npmjs.com/package/socket.io> ○ using Python: <https://pypi.org/project/python-socketio/>

2.2 Logon and Authentication

REST API uses a persistent Access Token. You can generate this token by logging into Trading Station Web at <https://tradingstation.fxcm.com/>.

2.3 Message Flow

RestAPI Prices and Orders Flow



Clients should establish a persistent WebSocket connection using socket.io library. All non-solicited updates will be sent over this connection. Client requests are to be sent via normal HTTP messages. Every HTTP message must contain following parameters:

REQUEST			
Header	Description	Values	Req'd
HTTP version	Version of HTTP used	HTTP/1.1	Y
User-Agent	Identification of the client software	request	Y
Accept	Acceptable response MIME type	application/json	Y
Content-Type	Media type of the request	application/x-www-form-urlencoded	Y

Authorization	Authorization string containing "Bearer ", ID of socket.io connection and persistent token.	'Bearer ' + socket_id + api_token	Y
---------------	---	-----------------------------------	---

All request parameters sent to the server must be formatted as key=value pairs. Possible types:

- String, URL encoded ("/" being represented as "%2F", for example: key=EUR%2FUSD
- Number, with decimals separated with a "." character, for example: key=1.23
- Boolean, lowercase "true" or "false", for example: key=true

Multiple key=value pairs are separated by "&" character, for example:

```
key=EUR%2FUSD&key2=1.23&key3=false
```

Request parameters for GET method are sent as Query part of the URL. Request parameters for POST method are sent as request body.

3 Authentication Messages

3.1 Open SocketIO connection and get socket_id

We have upgraded JS Server SocketIO to 3.1. On client side, we recommend socketio==5.0.x with engineio==4.x.x down to 3.14.2. socketio==5.1+.x does not work with any version of engineio. To get the socketID, client must use `sio.get_sid()`, which can only be called after receiving the `on_connect` event. If you use `eo.sid` as socketID, you will get UNAUTHORIZED error, when you try to send GET/POST request.

Then client need to build the Bearer string (Bearer + SocketID + token) and passed it in the header for each request, sample as below.

```
headers = {  
  
  'User-Agent': 'request',  
  
  'Authorization': bearer_string,  
  
  'Accept': 'application/json',  
  
  'Content-Type': 'application/x-www-form-urlencoded'  
  
}
```

4 Market Data

4.1 Request a list of all available symbols

We need to know which symbols are available for subscription.

REQUEST			
Header	Description	Values	Req'd
Method	HTTP method	GET	Y
URI	Resource	/trading/get_instruments	Y
Parameter	Description	Values	Req'd
Sample Request GET /trading/get_instruments/? HTTP/1.1 User-Agent: request Accept: application/json Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAARya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api-demo.fxcm.com Connection: close			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
data	Data of the response	Object
instrument	List of instruments	Array
symbol	Representation of the instrument	Symbol
visible	Is symbol visible in Offers table	Boolean
order	Ordering number	Number
Sample Response HTTP/1.1 200 OK Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 2869 ETag: W/"b35-wJL+EwQsbuYSjtvqcCGh1g" Date: Tue, 16 Jan 2018 17:27:44 GMT Connection: close Last-Modified: Tue, 16 Jan 2018 17:27:44 UTC Vary: Accept-Encoding {"response":{"executed":true},"data":{"instrument":[{"symbol":"EUR/USD","visible":true,"order":1 } /...		

4.2 Subscribe to Market Data stream

After subscribing, market price updates will be pushed to the client via the socket.

REQUEST

Header	Description	Values	Req'd
Method	HTTP method	POST	Y
URI	Resource	/subscribe	Y
Parameter	Description	Values	Req'd
pairs		Symbols to be subscribed to String, representation of the requested symbol	Y
Sample Request POST /subscribe HTTP/1.1 User-Agent: request Accept: application/json Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 55 pairs=EUR%2FUSD 0			

RESPONSE			
Parameter	Description	Values	
executed	Execution successful	Boolean	
error	Type of socket	String. Internal variable of socket.io	
pairs	Symbol information	Object containing information about the symbol	
Updated	Timestamp of last update	Number, Epoch timestamp in milliseconds	
Rates	Current rates	Array of Numbers, [Bid, Ask, Session High, Session Low]	
Symbol	Symbol	String representing the symbol	
Sample Response HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 157 ETag: W/"9d-YFo+3OmAbWV4Q8hgjKPCMA" Date: Fri, 28 Jul 2017 22:48:36 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Http only; Secure Last-Modified: Fri, 28 Jul 2017 22:48:36 UTC {"response":{"executed":true,"error":""},"pairs":{"Updated":1501275479,"Rates":[1.17481,1.17513,1.17653,1.167]},"Symbol":"EUR/USD"}			

4.3 Unsubscribe from Market Data stream

REQUEST

Header	Description	Values	Req'd
Method	HTTP method	POST	Y
URI	Resource	/unsubscribe	Y
Parameter	Description	Values	Req'd
pairs	Symbols to be unsubscribed from	String representing the symbol	Y

Sample Request

```
POST /unsubscribe HTTP/1.1
User-Agent: request
Accept: application/json
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea
Host: api.fxcm.com
Connection: close
Transfer-Encoding: chunked

55
pairs=EUR%2FUSD
0
```

RESPONSE			
Parameter	Description	Values	
Sid	Socket ID	40 digit hex value to be used as socket_id in all future requests	
upgrades	Type of socket	String. Internal variable of socket.io	
pingInterval	Interval between pings	Integer value in milliseconds. Internal variable of socket.io	
pingTimeout	Timeout of pings	Integer value in milliseconds. Internal variable of socket.io	

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept
X-Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 59
ETag: W/"3b-3vU5f74yKnWdV/dyTgPejA"
Date: Fri, 28 Jul 2017 22:48:40 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 28 Jul 2017 22:48:40 UTC

{"response":{"executed":true,"error":"","pairs":"EUR/USD"}}
```

4.4 Price updates

RESPONSE			
Parameter	Description	Values	
Updated	Time of the update	Integer epoch time in milliseconds	
Rates	Price information	[Bid, Ask, Session High, Session Low]	

Symbol	Instrument of the update	String representation of the instrument
Sample Response <pre>[{"EUR/USD", {"Updated":1503314642123,"Rates":[1.17614,1.17637,1.1771,1.17298],"Symbol":"EUR/USD"}]}</pre>		

5 Trading Tables

5.1 Subscribe to trading tables

Subscribes to the updates of the data models. Update will be pushed to client via the socket. Type of update can be determined by “action” field.

REQUEST				
Header	Description	Values	Req'd	
Method	HTTP method	POST	Y	
URI	Resource	/trading/subscribe	Y	
Parameter	Description	Values	Req'd	
models	Name of the table model to be subscribed to	String, one or more of: 'OpenPosition', 'ClosedPosition', 'Order', 'Account', 'Summary'	Y	
Sample Request <pre>POST /trading/subscribe HTTP/1.1 User-Agent: request Accept: application/json Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAaKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 52 models=Order 0</pre>				

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
Sample Response HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 30 ETag: W/"1e-/mvovEuhtN1hYjWJCVVEGQ" Date: Fri, 28 Jul 2017 23:19:59 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 28 Jul 2017 23:19:59 UTC <pre>{"response":{"executed":true}}</pre>		

5.2 Unsubscribe from trading tables

Unsubscribes from the updates of the data models that are being pushed via the socket.

REQUEST			
Header	Description	Values	Req'd
Method	HTTP method	POST	Y
URI	Resource	/trading/unsubscribe	Y
Parameter	Description	Values	Req'd
models	Name of the table model to be unsubscribed to	String, one or more of: 'Offer', 'OpenPosition', 'ClosedPosition', 'Order', 'Account', 'Summary'	Y
Sample Request POST /trading/unsubscribe HTTP/1.1 User-Agent: request Accept: application/json Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked <pre>52 models=Order 0</pre>			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
Sample Response		

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept
X-Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 30
ETag: W/"1e-/mvovEuhtNlhYjWJCVVEGQ"
Date: Fri, 28 Jul 2017 23:20:05 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 28 Jul 2017 23:20:05 UTC

{"response":{"executed":true}}
```

5.3 Request a snapshot of trading tables

In case continuous updates of the trading tables is not needed, it is possible to request a one-time snapshot.

Gets current content snapshot of the specified data models.

Model choices: 'Offer', 'OpenPosition', 'ClosedPosition', 'Order', 'Summary', 'Account', 'Properties'.

REQUEST			
Header	Description	Values	Req'd
Method	HTTP method	GET	Y
URI	Resource	/trading/get_model	Y
Parameter	Description	Values	Req'd
models	Name of the table model to be unsubscribed to	String, one or more of: 'Offer', 'OpenPosition', 'ClosedPosition', 'Order', 'Account', 'Summary', 'Properties'	Y
Sample Request			
GET /trading/get_model/?models=Offer&models=OpenPosition&models=ClosedPosition&models=Order&models=Summary&models=Account&models=LeverageProfile&models=Properties HTTP/1.1 Host: api.fxcm.com Connection: close			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
<models>	Requested tables	Table models. See chapter 5.4

```

Sample Response
HTTP/1.1 200 OK
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 12264
ETag: W/"2fe8-79HiV0VI0lZqcM4i27YTlw" Date:
Mon, 14 Aug 2017 15:01:06 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-
Modified: Mon, 14 Aug 2017 15:01:06 UTC
Vary: Accept-Encoding

{"response":{"executed":true}, (...)}

```

5.4 Trading table responses

5.4.1 Offers table

This section describes the Offers table that contains information about trading instruments, current prices, and high/low trading day prices.

RESPONSE		
Parameter	Description	Values
t	ID number of the table	0
ratePrecision	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
offerId	The unique identification number of the instrument.	Number
rollB	The interest amount added to the account balance for holding a one lot long (buy) position overnight. In the case of FX instruments, lot size is determined by the system base unit size. In the case of CFD instruments, lot size equals to one contract. The interest amount is expressed in the account currency and can be positive or negative.	Number
rollS	The interest amount added to the account balance for holding a one lot short (sell) position overnight. In the case of FX instruments, lot size is determined by the system base unit size. In the case of CFD instruments, lot size equals to one contract. The interest amount is expressed in the account currency and can be positive or negative.	Number
fractionDigits	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
pip	The size of one pip. It used to define the smallest move the instrument can make. In the case of FX instruments, it is expressed in the instrument counter currency. In the case of CFD instruments, it is expressed in the instrument native currency.	Number
defaultSortOrder	Sorting index of the instrument	Number
currency	The symbol of the instrument.	String

instrumentType	The type of the instrument. The possible values are: 1 – Forex 2 – Indices 3 – Commodity 4 – Treasury 5 – Bullion 6 – Shares 7 – FXIndex	Number
valueDate	The simulated delivery date. The date and time when the position opened in the instrument could be automatically closed. The value of this field is provided in the yyyyMMdd format. It is applicable only when instrument trades on account with the day netting trading. Otherwise, the value of this field is blank.	String
time	The date and time of the last update of the instrument. ISO 8601 format.	String
sell	The current market price the instrument can be sold at.	Number
buy	The current market price the instrument can be bought at.	Number
sellTradable	The usage of the sell price. It defines whether the sell price of the instrument is available for trading or not.	Boolean
buyTradable	The usage of the buy price. It defines whether the buy price of the instrument is available for trading or not.	Boolean
high	The highest buy price of the instrument for the current trading day.	Number
low	The lowest sell price of the instrument for the current trading day.	Number
volume	The tick volume of the current minute. The value of this field represents the number of ticks happened during the current minute.	Number
pipFraction	Minimum price change for the instrument.	Number
spread	Difference between Buy and Sell price in pips.	Number
mmr	Maintenance margin level.	Number
emr	Entry margin level.	Number
lmr	Limitation margin level.	Number
minQuantity	Minimum quantity size.	Number
maxQuantity	Maximum quantity size.	Number
instrBaseUnitSize	Instrument Base unit size	Number
pipCost	The cost of one pip per lot. It is expressed in the account currency and used to calculate the P/L value in the account currency.	Number
Sample Response		
<pre>"offers": [{"t":0,"ratePrecision":5,"offerId":1,"rollB":0,"rolls":0,"fractionDigits":5,"pip":0.0001,"defaultSortOrder":1,"currency":"EUR/USD","instrumentType":1,"valueDate":"05202020","time":"2020-05-15T19:15:00.642Z","sell":1.08102,"buy":1.08152,"sellTradable":true,"buyTradable":true,"high":1.08192,"low":1.08102,"volume":1,"pipFraction":0.1,"spread":5,"mmr":12,"emr":12,"lmr":12,"minQuantity":1000,"maxQuantity":2000000,"instrBaseUnitSize":1,"pipCost":0.1}]</pre>		

5.4.1.1 Changing symbols subscribed to in Offers table

Offers table will show only symbols that we have subscribed to using update_subscriptions. For a list of symbols available for subscription please see 4.1

Header	Description	Values	Req'd
Method	HTTP method	POST	Y
URI	Resource	/trading/update_subscriptions	Y
Parameter	Description	Values	Req'd
symbol	Requested symbol	String	Y
visible	Should the symbol be visible in Offers table	Boolean	

Sample Request

```
POST /trading/update_subscriptions HTTP/1.1
User-Agent: request
Accept: application/json
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea
Host: api-demo.fxcm.com
Connection: close
Transfer-Encoding: chunked

1d
symbol=EUR%2FUSD&visible=true
0
```

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 30
ETag: W/"1e-/mvovEuhtN1hYjWJCVVEGQ"
Date: Tue, 16 Jan 2018 17:45:51 GMT
Connection: close
Last-Modified: Tue, 16 Jan 2018 17:45:50 UTC

{"response":{"executed":true}}
```

5.4.2 Open Positions table

This section describes the Open Positions table that contains open positions data such as floating profit/loss, charged commission, cumulative interest, and so on.

RESPONSE		
Parameter	Description	Values

t	ID number of the table	1
ratePrecision	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
tradeId	The unique identification number of the open position. The number is unique within the same database that stores the account the position is opened on.	String
accountName	The unique name of the account the position is opened on. The name is unique within the database where the account is stored.	String
accountId	The unique identification number of the account the position is opened on. The number is unique within the database where the account is stored.	String
roll	The cumulative amount of funds that is added the account balance holding the position overnight.	Number for
com	The amount of funds subtracted from the account balance to pay for the broker's service in accordance with the terms and conditions of the account trading agreement.	Number
open	The price the position is opened at.	Number
valueDate	The simulated delivery date. The date when the position could be automatically closed. The date is provided in the yyyyMMdd format. It is applicable only for positions opened on accounts with the day netting trading mode. Otherwise, the value of this field is blank.	String
grossPL	The current profit/loss of the position. It is expressed in the account	Number currency.
close	The price at which the position can be closed at the moment.	Number
visiblePL	The current profit/loss per one lot of the position. It is expressed in account currency.	Number the
isDisabled		Boolean
currency	The symbol of the instrument.	String
isBuy	The trade operation the position is opened by. The possible values are: True – Buy False – Sell	Boolean
amountK	The amount of the position in thousand units.	Number
currencyPoint	?	Number
time	The date and time when the position was opened.	String
usedMargin	The amount of funds currently committed to maintain the position.	Number
OpenOrderRequestTXT	The custom identifier of the order the position is opened by.	String
stop	The price of the associated stop order (loss limit level).	Number

stopMove	The number of pips the market should move before the stop order same number of pips after it. If the trailing order is dynamic (automatically updates every 0.1 of a pip), then the value of this field is 1. If the order is not trailing, the value of this field is 0.	Number moves the
limit	The price of the associated limit order (profit limit level).	Number
isTotal	Indicates the row is a summary of for whole table.	Boolean
action	Type of update. Only applicable to updates through the socket. Possible values are: I – Insert U – Update D – Delete	String

Sample Response

```
"open_positions":[{"t":1,"ratePrecision":3,"tradeId":"82169390","accountName":"1000096470","accountId":
"96470","roll":-0.02,"com":0,"open":107.28,"valueDate":"","grossPL":0.5596,"close":107.22,"visiblePL":
6,"isDisabled":false,"currency":"USD/JPY","isBuy":false,"amountK":1,"currencyPoint":0.09328,"time":
"05152020175947","usedMargin":10,"OpenOrderRequestTXT":"FXTC","stop":0,"stopMove":0,"limit":0}]
```

5.4.3 Closed Positions table

This section describes the Closed Positions table that contains information about the positions closed during the current trading day such as realized profit/loss, charged commission, cumulative interest, and so on.

RESPONSE		
Parameter	Description	Values
t	ID number of the table	2
ratePrecision	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
tradeId	The unique identification number of the open position. The number is unique within the same database that stores the account the position is opened on.	String
accountName	The unique name of the account the position is opened on. The name is unique within the database where the account is stored.	String
roll	The cumulative amount of funds that is added the account balance for holding the position overnight.	Number
com	The amount of funds subtracted from the account balance to pay for the broker's service in accordance with the terms and conditions of the account trading agreement.	Number
open	The price the position is opened at.	Number
valueDate	The simulated delivery date. The date when the position could be automatically closed. The date is provided in the yyyyMMdd format. It is applicable only for positions opened on accounts with the day netting trading mode. Otherwise, the value of this field is blank.	String

grossPL	The current profit/loss of the position. It is expressed in the account currency.	Number
close	The price at which the position can be closed at the moment.	Number
visiblePL	The current profit/loss per one lot of the position. It is expressed in the account currency.	Number
currency	The symbol of the instrument.	String
isBuy	The trade operation the position is opened by. The possible values are: True – Buy False – Sell	Boolean
amountK	The amount of the position in thousand units.	Number
TradeIDOrigin	The unique identification number of the position, the partial closing of which results in the opening of the current position. Otherwise, the value of this field is blank.	String
CloseOrderID	The unique identification number of the order the position is closed by. The number is unique within the same database that stores the account the order is placed on. For example, MINIDEMO or U100D1. The uniqueness of the order itself is assured by the combination of the database ID and the value of this field.	String
CloseOrderReqID	The unique identifier of the order request the position is closed by.	String
CloseOrderRequestTXT	The custom identifier of the order the position is closed by.	String
CloseOrderParties	The unique identifier of the environment that is used to close the position. The identifier is generated by system.	String
OpenOrderParties	The unique identifier of the environment that is used to open the position. The identifier is generated by system.	String
TradeIDRemain	The unique identification number of the position opened as the result of the current position partial closing. Otherwise, the value of this field is blank.	String
currencyPoint		Number
openTime	The date and time when the position was opened.	String
closeTime	The date and time when the position was closed.	String
isTotal	Indicates the row is a summary of for whole table.	
action	Type of update. Only applicable to updates through the socket. Possible values are: I – Insert U – Update D – Delete	String

Sample Response

```
"closed_positions": [ {"t":2, "ratePrecision":5, "tradeId":"82170172", "accountName":"1000096470", "ro11":0, "com":0, "open":1.08157, "valueDate":"","grossPL":-0.35, "close":1.08122, "visiblePL":-3.5, "currency":"EUR/USD", "isBuy":true, "amountK":1, "TradeIDOrigin":null, "CloseOrderID":"44866235", "CloseOrderReqID":"Request-
```

```
240487", "CloseOrderRequestTXT": "restAPI_Lei_close", "CloseOrderParties": "[fxcm.com,C,13,DFX4,4,d,4001]", "OpenOrderParties": "[fxcm.com,C,13,DFX4,4,d,4001]", "TradeIDRemain": null, "currencyPoint": 0.1, "openTime": "05152020190932", "closeTime": "05152020191952"]]
```

5.4.4 Orders table

This section describes the Orders table that contains information about orders. The data is kept in this table until all the orders are executed. This table needs to be monitored to receive identification of the trade opened by an order.

RESPONSE		
Parameter	Description	Values
t	ID number of the table	3
ratePrecision	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
orderId	The unique identification of the order. The number is unique within the same database that stores the account the order is placed on.	String
tradeId	The unique identification of the position opened by the order.	String
time	The time when the order was created.	String
accountName	The unique name of the account the position is opened on. The name is unique within the database where the account is stored.	String
accountId	The unique identification number of the account the position is opened on. The number is unique within the database where the account is stored.	String
timeInForce	The time-in-force option of the order. The possible values are: GTC – Good Till Cancelled IOC – Immediate Or Cancel FOK – Fill Or Kill DAY – Day Order GTD – Good Till Date	String
expireDate	Time at which the order will expire.	Number
currency	The symbol of the instrument.	String
isBuy	The trade operation the position is opened by. The possible values are: True – Buy False – Sell	Boolean
buy	The price the order is placed at.	Number
sell	The price the order is placed at.	Number

type	The order type. The possible values are: S – Stop ST – Trailing Stop L – Limit SE – Entry Stop LE – Entry Limit STE – Trailing Entry Stop LTE – Trailing Entry Limit C – Close CM – Close Market CR – Close Range O – Open OM – Open Market OR – Open Range M – Margin Call	String
status	The state of the order. The possible values are: 0 – Unknown 1 – Waiting 2 – InProcess 3 – Canceled 4 – Requoted 5 – MarginCall 6 – Executing 7 – Pending 8 – EquityStop 9 – Executed 10 – Activated	Number
amountK	The amount of the position in thousand units.	Number
currencyPoint		Number
stopMove	The number of pips the market should move before the stop order moves the same number of pips after it. If the trailing order is dynamic (automatically updates every 0.1 of a pip), then the value of this field is 1. If the order is not trailing, the value of this field is 0.	Number
stop	The price of the associated stop order (loss limit level).	Number
stopRate		Number
limit	The price of the associated limit order (profit limit level).	Number
limitRate		Number
isEntryOrder	Indicates if the order is of Entry type (resting order).	Boolean
ocoBulkId	The unique identifier of an existing OCO group which the order is linked to. The number is unique within the same database that stores the account the contingent order is placed on.	Number
isNetQuantity	Indicates if the order is of Net Amount type.	Boolean

isLimitOrder	Indicates if the order is of Limit type.	Boolean
isStopOrder	Indicates if the order is of Stop type.	Boolean
isELSOOrder	Indicates if the order is of Entry with Limit and Stop type.	Boolean
stopPegBaseType		Number
limitPegBaseType		Number
range		Number
action	Type of update. Only applicable to updates through the socket. Possible values are: I – Insert U – Update D – Delete	String
Sample Response <pre>"orders": [{"t":3,"ratePrecision":5,"orderId":"236780744","tradeId":"123022436","time":"10172017103642","accountName":"01073265","accountId":"1073265","timeInForce":"GTD","expireDate":"10182017205900","currency":"EUR/USD","isBuy":true,"buy":1.16079,"sell":0,"type":"LE","status":1,"amountK":1,"currencyPoint":0.1,"stopMove":0,"stop":0,"stopRate":0,"limit":0,"limitRate":0,"isEntryOrder":true,"ocoBulkId":0,"isNetQuantity":false,"isLimitOrder":true,"isStopOrder":false,"isELSOOrder":false,"stopPegBaseType":-1,"limitPegBaseType":-1,"range":0}]</pre>		

5.4.5 Summary table

This section describes the Summary table that contains summarized information such as the average entry price, profit/loss, and so on for every instrument currently traded.

RESPONSE		
Parameter	Description	Values
t	ID number of the table	5
ratePrecision	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
offerId	The unique identification number of the instrument.	Number
currency	The symbol of the instrument.	String
plSell	The current profit/loss of all Sell positions. It does not include commissions and interests.	Number
amountKSell	The sum of amounts of Sell positions in thousand units.	Number
avgSell	The average open price of Sell positions.	Number
closeBuy	The current market price, at which Sell positions can be closed.	Number
closeSell	The current market price, at which Buy positions can be closed.	Number
avgBuy	The average open price of Buy positions.	Number
amountKBuy	The sum of amounts of Buy positions in thousand units.	Number
rollSum	The cumulative amount of funds that is added the account balance for holding the positions overnight.	Number

<code>usedMarginSell</code>	The amount of funds currently committed to maintain Sell positions.	Number
<code>usedMarginBuy</code>	The amount of funds currently committed to maintain Buy positions.	Number
<code>plBuy</code>	The current profit/loss of all Buy positions. It does not include commissions and interests.	Number
<code>amountK</code>	The sum of amounts of all positions in thousand units.	Number
<code>currencyPoint</code>		Number
<code>grossPL</code>	The current profit/loss of all positions. It does not include commissions and interests.	Number
<code>netPL</code>	The current profit/loss of all positions. It includes commissions and interests.	Number
<code>isTotal</code>	Indicates the row is a summary of for whole table.	Boolean
<code>action</code>	Type of update. Only applicable to updates through the socket. Possible values are: I – Insert U – Update D – Delete	String
Sample Response <pre>"summary":[{"t":5,"ratePrecision":5,"offerId":1,"currency":"EUR/USD","plSell":6.09,"amountKSell":7,"avgSell":1.19719,"closeBuy":1.19632,"closeSell":0,"avgBuy":0,"amountKBuy":0,"rollSum":0,"usedMarginSell":182,"usedMarginBuy":0,"isSellDisabled":false,"isBuyDisabled":true,"plBuy":0,"amountK":-7,"currencyPoint":-0.7,"grossPL":6.09,"netPL":1.09,"netStop":0,"netStopMove":0,"netLimit":0}]</pre>		

5.4.6 Accounts table

This section describes the Accounts table that contains the trading account data such as funds used in trading, idle funds, profits/losses, certain account limitations, and so on.

RESPONSE		
Parameter	Description	Values
<code>t</code>	ID number of the table	6
<code>ratePrecision</code>	The price precision of the instrument. It defines number of digits after the decimal point in the instrument price quote.	Number
<code>accountId</code>	The unique identification number of the account the position is opened on. The number is unique within the database where the account is stored.	String
<code>balance</code>	The amount of funds on the account. This amount does not include floating profit and loss	Number
<code>usedMr</code>	The amount of funds used to maintain all open positions on the account.	Number

mc	<p>The limitation state of the account. Each state defines the operations that can be performed on the account. The possible values are:</p> <p>Y – Margin call (all positions are liquidated, new positions cannot be opened).</p> <p>W – Warning of a possible margin call (positions may be closed, new positions cannot be opened).</p> <p>Q – Equity stop (all positions are liquidated, new positions cannot be opened up to the end of the trading day).</p> <p>A – Equity alert (positions may be closed, new positions cannot be opened up to the end of the trading day).</p> <p>N – No limitations (no limitations are imposed on the account operations).</p>	String
accountName	The unique name of the account the position is opened on. The name is unique within the database where the account is stored.	String
usdMr3	The amount of funds used to maintain all open positions on the account with the three-level margin policy.	Number
hedging	<p>The type of the position maintenance. It defines how trade operations can be performed on the account. The possible values are:</p> <p>Y – Hedging is allowed. In other words, both buy and sell positions can be opened for the same instrument at the same time. To close each buy or sell position, an individual order is required.</p> <p>N – Hedging is not allowed. In other words, either a buy or a sell position can be opened for the same instrument at a time. Opening a position for the instrument that already has open position(s) of the opposite trade operation always causes closing or partial closing of the open position(s).</p> <p>0 – Netting only. In other words, for each instrument there exists only one open position. The amount of the position is the total amount of the instrument, either bought or sold, that has not yet been offset by opposite trade operations.</p> <p>D – Day netting. In other words, for each instrument there exists only one open position. Same as Netting only, but within a trading day. If the position is not offset during the same trading day it is opened, it is closed automatically on simulated delivery date. F – FIFO. Positions open and close in accordance with the FIFO (Firstin, First-out) rule. Hedging is not allowed.</p>	String
equity	The amount of funds on the account, including profits and losses of all open positions (the floating balance of the account).	Number
usableMargin	The amount of funds available to open new positions or to absorb losses of the existing positions.	Number
dayPL	The amount of profits and losses (both floating and realized) of the current trading day.	Number
grossPL	The amount of profits and losses of all open positions on the account.	Number
isTotal	Indicates the row is a summary of for whole table.	Boolean

action	Type of update. Only applicable to updates through the socket. Possible values are: I – Insert U – Update D – Delete	String
Sample Response		
<pre>"accounts": [{"t":6,"ratePrecision":0,"accountId":"1027808","balance":39208.63,"usdMr":116,"mc":"N","accountName":"01027808","usdMr3":58,"hedging":"N","usableMargin3":39152.26234,"usableMarginPerc":99.70416,"usableMargin3Perc":99.85208,"equity":39210.26234,"usableMargin":39094.26234,"dayPL":-63.21766,"grossPL":1.63234}]</pre>		

6 Trading Orders

6.1 /trading/open_trade

REQUEST			
Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/open_trade	Y
Parameter	Description	Values	Req'd
account_id	The trade's account identifier. Can be found in Accounts trading table as accountId 5.4.6. Not to be confused with accountName.	String	Y
symbol	The trade's currency pair or instrument.	String	Y
is_buy	Defines the order's market side. Valid values: 'true', 'false'. If 'true', order is a buy. If 'false', order is a sell.	Boolean	Y
amount	The trade's amount in lots.	String	Y
stop	Rate of the stop order attached to the position created by the AtMarket or MarketRange order's execution.	Number	N
trailing_step	Rate of the limit order attached to the position created by the AtMarket or MarketRange order's execution.	Number	N
limit	Rate of the limit order attached to the position created by the AtMarket or MarketRange order's execution.	Number	N
is_in_pips	Defines if the trade's stop/limit rate is in pips.	Boolean	N
at_market	For MarketRange orders, the 'at_market' value is added to the BBO to define the market range. If not sent, a value of 0 is used.	Number	N
order_type	The type of the order execution. Market Order	String	Y type choices: "AtMarket", "MarketRange".

request_text	request text for "OpenOrderRequestTXT"	String
time_in_force	For AtMarket orders, valid value are: GTC, IOC, FOK. For MarketRange orders, valid values are: IOC, FOK.	String Y
Sample Request <pre>POST /trading/open_trade HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAaKy11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked ba account_id=01027808&symbol=EUR%2FUSD&is_buy=false&rate=0&amount=10&at_market=0&order_type=AtMarket&time_in_force=FOK 0</pre>		

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
data	Contains array of created orders.	Array of Objects
type	Defines the type of the order.	Number
orderID	The order identifier.	Number

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept
X-Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 42
ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ"
Date: Fri, 18 Aug 2017 21:05:21 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 18 Aug 2017 21:05:21 UTC
```

```
{"response":{"executed":true},"data":{"type":0,"orderId":81712802}}
```

6.2 /trading/close_trade

This function is for hedging accounts. For non-hedging accounts please use 6.1/trading/open_trade function with opposite side.

REQUEST			
Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/close_trade	Y

Parameter	Description	Values	Req'd
trade_id	The trade identifier	String	Y
rate	The trade's rate.	Number	N
amount	The trade's amount in lots.	Number	Y
at_market	Defines the market range.	Number	Y*
order_type	The type of the order execution. Market Order choices: "AtMarket", "MarketRange".	String type	Y
time_in_force	The time in force of the order execution. Time in force choices: "IOC", "GTC", "FOK".	String	Y
Sample Request POST /trading/close_trade HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 9a trade_id=81713394&rate=0&amount=8&at_market=0&order_type=AtMarket&time_in_force=GTC 0			
Conditional Requirements *) at_market is required if order_type is set to "MarketRange"			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
data	Contains array of created orders.	Array of Objects
type	Defines the type of the order.	Number
orderID	The order identifier.	Number
Sample Response HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET, PUT, POST, DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 42 ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ" Date: Fri, 18 Aug 2017 21:06:49 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 18 Aug 2017 21:06:49 UTC {"response":{"executed":true},"data":{"type":0,"orderId":81713394}}		

6.3 /trading/change_order

This function can only be used for orders that have not been executed yet.

REQUEST			
Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/change_order	Y
Parameter	Description	Values	Req'd
order_id	The order identifier.	String	Y
rate	The order's new rate.	Number	Y
range	The order's range (is used for "RangeEntry" only).	Number orders	Y
amount	The trade's amount in lots.	String	Y
trailing_step	The trailing step for the stop rate.	Number	N
Sample Request POST /trading/change_order HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAYa11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 82 order_id=235045369&rate=1.7&range=0&amount=1&trailing_step=2 0			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
Data	Always null	Null
Sample Response HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 42 ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ" Date: Tue, 22 Aug 2017 12:37:52 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Tue, 22 Aug 2017 12:37:52 UTC {"response":{"executed":true},"data":null}		

6.4 /trading/delete_order

This function can only be used for orders that have not been executed yet. For OCO orders, all orders that are part of the group will be removed.

REQUEST			
Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/delete_order	Y
Parameter	Description	Values	Req'd
order_id	The order's identifier	String	Y
Sample Request POST /trading/delete_order HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAYa11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 58 order_id=235045369 0			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
Data	Always null	null
Sample Response HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 42 ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ" Date: Fri, 18 Aug 2017 21:12:26 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 18 Aug 2017 21:12:26 UTC {"response":{"executed":true},"data":null}		

6.5 /trading/create_entry_order

REQUEST			
Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/create_entry_order	Y
Parameter	Description	Values	Req'd

account_id	The trade's account identifier. Can be found in Accounts trading table as accountId 5.4.6. Not to be confused with accountName.	String	Y
symbol	The trade's symbol.	String	Y
is_buy	Defines the trade's market side (if true, then buy trade, otherwise sell trade).	Boolean	N
rate	The trade's rate.	Number	N
amount	The trade's amount in lots.	String	Y
stop	The trade's stop rate.	Number	N
trailing_step	The trailing step for the stop rate.	Number	N
trailing_stop_step	The trailing step for the order stop rate.	Number	N
limit	The trade's limit rate.	Number	Y
is_in_pips	Defines if the trade's stop/limit rate is in pips.	Boolean	Y
range	The order's range for "RangeEntry"	Number	N
order_type	The type of order = "Entry" or "RangeEntry"	String	Y
time_in_force	Valid values: "GTC", "GTD"	String	Y
expiration	The order's expiration date for GTD. Format is "YYYY-MM-DD hh:mm" or "YYYY-MM-DD" in UTC. Not including time sets the expiration at start of trading day.	String	N
Sample Request <pre>POST /trading/create_entry_order HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked be account_id=01027808&symbol=EUR%2FUSD&is_buy=true&rate=1.16&is_in_pips=false&amount=10&order_type=Entry&time_in_force=GTC 0</pre>			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
data	Contains array of created orders.	Array of Objects
type	Defines the type of the order.	Number
orderID	The order identifier.	Number

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 42
ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ"
Date: Tue, 22 Aug 2017 12:51:08 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-
Modified: Tue, 22 Aug 2017 12:51:08 UTC
```

```
{"response":{"executed":true},"data":{"type":0,"orderId":81716002}}
```

6.6 /trading/simple_oco

REQUEST

Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/open_trade	Y
Parameter	Description	Values	Req'd
account_id	The trade's account identifier. Can be found in Accounts trading table as accountId 5.4.6. Not to be confused with accountName.	String	Y
symbol	The trade's symbol.	String	Y
amount	The trade's amount in lots.	String	Y
is_in_pips	Defines if the order's stop/limit rate is in pips.	Boolean	Y
time_in_force	The time in force of the order execution. Time in force choices: "GTC", "GTD".	String	Y
expiration	The order's expiration date. Format is "YYYY-MM-DD hh:mm" or "YYYY-MM-DD" in UTC. Not including time sets the expiration at start of trading day.	String	Y
is_buy	Defines the trade's market side (if true, then buy trade, otherwise sell trade).	Boolean	N
rate	The trade's rate.	Number	Y
stop	The trade's stop rate.	Number	Y
trailing_step	The trailing step for the stop rate.	Number	Y

<code>trailing_stop_step</code>	The trailing step for the first order's stop rate.	Number	Y
<code>limit</code>	The trade's limit rate.	Number	Y
<code>is_in_pips</code>	Defines if the trade's stop/limit rate is in pips.	Boolean	Y
<code>at_market</code>	Defines the market range.	Number	Y
<code>order_type</code>	The type of the order execution. Market Order type choices: "AtMarket", "MarketRange".	String	Y
<code>is_buy2</code>	Defines the trade's market side (if true, Boolean N then buy trade, otherwise sell trade).		
<code>rate2</code>	The second order's rate.	Number	Y
<code>stop2</code>	The second order's stop rate.	Number	Y
<code>trailing_step2</code>	The trailing step for the second order's rate.	Number	Y
<code>trailing_stop_step2</code>	The trailing step for the second order's stop rate.	Number	Y
<code>limit2</code>	The second order's limit rate.	Number	Y
Sample Request			
<pre>POST /trading/simple_oco HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 12f account_id=01027808&symbol=EUR%2FUSD&amount=10&is_buy=true&is_in_pips=false&time_in_force=GTC&rate=1.17&stop=1.16&trailing_step=0&trailing_stop_step=0&limit=1.18&is_buy2=false&rate2=1.09&stop2=0&trailing_step2=0&trailing_stop_step2=0 0</pre>			

RESPONSE		
Parameter	Description	Values
<code>executed</code>	Execution successful	Boolean
<code>Data</code>	Always null	null

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 49
ETag: W/"31-L3CcNxew4MPQRwvnuhu6jw"
Date: Tue, 22 Aug 2017 12:53:30 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-
Modified: Tue, 22 Aug 2017 12:53:30 UTC
```

```
{"response":{"executed":true},"data":[null,null]}
```

6.7 /trading/add_to_oco

REQUEST

Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/add_to_oco	Y
Parameter	Description	Values	Req'd
orderIds	The list orders identifiers.	String	Y
ocoBulkId	The oco bulk identifier (if equals zero then new order will be created).	Number oco	Y

Sample Request

```
POST /trading/add_to_oco HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea
Host: api.fxcm.com
Connection: close
Transfer-Encoding: chunked
```

```
77
orderIds=235053902&orderIds=235053904&ocoBulkId=0
0
```

RESPONSE

Parameter	Description	Values
executed	Execution successful	Boolean
Data	Always null	null

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 49
ETag: W/"31-L3CcNxew4MPQRwvnuhu6jw"
Date: Sun, 20 Aug 2017 22:43:50 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-
Modified: Sun, 20 Aug 2017 22:43:50 UTC
```

```
{"response":{"executed":true},"data":[null,null]}
```

6.8 /trading/remove_from_oco

REQUEST

Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/remove_from_oco	Y
Parameter	Description	Values	Req'd
orderIds	The list orders identifiers.	string[]	Y

Sample Request

```
POST /trading/remove_from_oco HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea
Host: api.fxcm.com
Connection: close
Transfer-Encoding: chunked

77
orderIds=235053902&orderIds=235053904&ocoBulkId=0
0
```

RESPONSE

Parameter	Description	Values
executed	Execution successful	Boolean
Data	Always null	null

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 49
ETag: W/"31-L3CcNxew4MPQRwvnuhu6jw"
Date: Tue, 22 Aug 2017 12:22:17 GMT
Connection: close
Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified:
Tue, 22 Aug 2017 12:22:17 UTC
```

```
{"response":{"executed":true},"data":[null,null]}
```

6.9 /trading/edit_oco

REQUEST			
Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/edit_oco	Y
Parameter	Description	Values	Req'd
ocoBulkId	The oco bulk identifier	Number	Y
addOrderIds	The list orders identifiers to add to the oco	String order.	Y
removeOrderIds	The list orders identifiers to remove from the order.	String oco	Y
Sample Request			
<pre>POST /trading/edit_oco HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 77 ocoBulkId=236175794&addOrderIds=235053904&ocoBulkId=0 0</pre>			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
Data	Always null	null
Sample Response		

6.10 /trading/change_trade_stop_limit

This function will change stop and limit orders that are bound to an open position.

Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/change_trade_stop_limit	Y
Parameter	Description	Values	Req'd
trade_id	The trade identifier.	String	Y
is_stop	Defines stop or limit should be changed (if true, then stop should be changed, otherwise limit).	Boolean	Y
rate	The new rate for the trade's stop/limit order.	Number	Y
is_in_pips	Defines if the order's stop/limit rate is in pips.	Boolean	Y
trailing_step	The trailing step for the stop rate.	Number	Y
Sample Request POST /trading/change_trade_stop_limit HTTP/1.1 Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoWSRFJvYi2GEQAAKya11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host: api.fxcm.com Connection: close Transfer-Encoding: chunked 77 trade_id=122835946&is_stop=true&rate=1.19611&is_in_pips=false&trailing_step=0 0			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean
Data	Always null	null
Sample Response HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 42 ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ" Date: Fri, 18 Aug 2017 21:17:10 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 18 Aug 2017 21:17:10 UTC {"response":{"executed":true},"data":null}		

6.11 /trading/change_order_stop_limit

This function will change stop and limit orders that are bound to an unexecuted order.

REQUEST

Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/change_order_stop_limit	Y
Parameter	Description	Values	Req'd
order_id	The order identifier.	String	Y
limit	The new rate for the trade's limit order.	Number	Y
is_limit_in_pips	Defines if the order's limit rate is in pips.	Boolean	Y
stop	The new rate for the trade's stop order.	Number	Y
is_stop_in_pips	Defines if the order's stop rate is in pips.	Boolean	Y
trailing_step	The trailing step for the stop rate.	Number	N

Sample Request

```
POST /trading/change_order_stop_limit HTTP/1.1
User-Agent: request
Accept: application/json
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer 4hACT15oon9EvtM8AARAAa11f7bc3d6b14ff77f65dd9d21df16ac1b4c41ea
Host: api-demo.fxcm.com
Connection: close
Transfer-Encoding: chunked

53
order_id=72513348&limit=1.19&is_limit_in_pips=false&stop=1.18&is_stop_in_pips=false
0
```

RESPONSE

Parameter	Description	Values
executed	Execution successful.	Boolean
data	Contains array of modified orders.	Array of Objects
type	Defines the type of the order.	Number
orderID	The order identifier.	Number

Sample Response

```
HTTP/1.1 200 OK
Vary: X-HTTP-Method-Override
Access-Control-Allow-Methods: GET,PUT,POST,DELETE
Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-
Content-Type-Options: nosniff
Content-Type: application/json; charset=utf-8
Content-Length: 99
ETag: W/"63-Yx45ecYLqzqI+h55XtkeqA"
Date: Wed, 10 Jan 2018 16:44:21 GMT
Connection: close
Last-Modified: Wed, 10 Jan 2018 16:44:21 UTC
{"response":{"executed":true},"data":[{"type":0,"orderId":72513878}, {"type":0,"orderId":72513881
}]]
```

6.12 /trading/close_all_for_symbol

REQUEST

Header	Description	Values	Req
Method	HTTP method	POST	Y
URI	Resource	/trading/close_all_for_symbol	Y
Parameter	Description	Values	Req'd
account_id	The order's account identifier. Can be found in Accounts trading table as accountId 5.4.6. Not to be confused with accountName.	String	Y
forSymbol	Defines if trades should be closed for the	Boolean	Y specified symbol.
symbol	The trades symbol.	String	Y
order_type	The type of the order execution. Market Order "MarketRange".	String	Y type choices: "AtMarket", "MarketRange".
time_in_force	The time in force of the order execution. Time "GTC", "FOK".	String	Y in force choices: "IOC", "GTC", "FOK".

Sample Request

```
POST /trading/close_all_for_symbol HTTP/1.1
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer n5BoWSRFJvYi2GEQAAKyallf7bc3d6b14ff77f65dd9d21df16ac1b4c41ea Host:
api.fxcm.com
Connection: close
Transfer-Encoding: chunked
9f
account_id=01027808&forSymbol=true&symbol=EUR%2FUSD&order_type=AtMarket&time_in_force=GTC 0
```

RESPONSE

Parameter	Description	Values
executed	Execution successful	Boolean

Data	Always null	null
Sample Response <pre> HTTP/1.1 200 OK Vary: X-HTTP-Method-Override Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 42 ETag: W/"2a-hJHeaXvf4OSF9grD6BYptQ" Date: Fri, 18 Aug 2017 21:12:43 GMT Connection: close Set-Cookie: BIGipServerapi.fxcm.com=3698998282.42783.0000; path=/; Httponly; Secure Last-Modified: Fri, 18 Aug 2017 21:12:43 UTC {"response":{"executed":true},"data":null} </pre>		

7 Historical Data

Allow user to retrieve candles for a given instrument at a given time frame. If time range is specified, number of candles parameter is ignored, but still required. There is a limit on the number of candles that can be returned in one request. Please refer to <https://github.com/fxcm/RestAPI> for exact numbers.

REQUEST			
Header	Description	Values	Req'd
Method	HTTP method	GET	Y
URI	Resource	/candles/{offer_id}/{period_id}	Y
{offer_id}	ID of requested symbol	Integer from Offer trading table (see section 5.4.1)	Y
{period_id}	Requested timeframe	String, one of: m1,m5,m15,m30,H1,H2,H3,H4,H6,H8,D1,W1,M1	Y
Parameter	Description	Values	Req'd
num	Number of candles requested	Integer value between 1 and 10,000	Y
from	Beginning of time range	Integer representing Epoch time in seconds	N
to	End of time range	Integer representing Epoch time in seconds	N
Sample Request <pre> GET /candles/1/h1/?num=10 HTTP/1.1 User-Agent: request Accept: application/json Content-Type: application/x-www-form-urlencoded Authorization: Bearer n5BoW Host: www-beta3.fxcorporate.com Connection: close </pre>			

RESPONSE		
Parameter	Description	Values
executed	Execution successful	Boolean

error	Error text. Empty if no error	String
instrument_id	ID of requested symbol	Integer from Offer trading table (see section 5.4.1)
period_id		Timeframe of the candles String, one of: m1,m5,m15,m30,H1,H2,H3,H4,H6,H8,D1,W1,M1
candles	Array of candles	Format of candles: [timestamp (epoch), BidOpen, BidClose, BidHigh, BidLow, AskOpen, AskClose, AskHigh, AskLow, TickQty]
Sample Response <pre> HTTP/1.1 200 OK Access-Control-Allow-Methods: GET,PUT,POST,DELETE Access-Control-Allow-Headers: X-Requested-With, X-HTTP-Method-Override, Content-Type, Accept X-Content-Type-Options: nosniff Content-Type: application/json; charset=utf-8 Content-Length: 903 ETag: W/"387-HuKY4xMbqr0aSMecoNI5XA" Date: Thu, 22 Jun 2017 18:58:26 GMT Connection: close Last-Modified: Thu, 22 Jun 2017 18:58:26 UTC Cache-Control: public, max-age=86400 Strict-Transport-Security: max-age=31536000; includeSubDomains Vary: Accept-Encoding {"response":{"executed":true,"error":""},"instrument_id":"1","period_id":"h1", "candles": [[[1498125600,1.11641,1.11643,1.11664,1.11592,1.11664,1.11667,1.11688,1.11616,10423], [1498129200,1.11643,1.11641,1.11654,1.11558,1.11667,1.11664,1.11677,1.1158,11229], [1498132800,1.11641,1.116,1.11712,1.11578,1.11664,1.11622,1.11735,1.11602,16846], [1498136400,1.116,1.11586,1.1163,1.11513,1.11622,1.1161,1.11653,1.11537,18744], [1498136400,1.116,1.11586,1.1163,1.11513,1.11622,1.11611,1.11653,1.11537,18743], [1498140000,1.11586,1.11558,1.11613,1.11495,1.1161,1.11582,1.11637,1.11518,20571], [1498140000,1.11586,1.11558,1.11613,1.11495,1.1161,1.11582,1.11637,1.11518,20572], [1498143600,1.11558,1.11457,1.116,1.11442,1.11582,1.11481,1.11623,1.11466,15800], [1498147200,1.11457,1.11542,1.11549,1.11457,1.11481,1.11566,1.11572,1.11481,7491], [1498150800,1.11542,1.1142,1.11563,1.11382,1.11566,1.11444,1.11588,1.11406,8687]]] </pre>		

8 Trailing fields

New ‘trailing’ fields for parent and attached (child) orders have been added for models: Order (t=3) and Open Position (t=1).

These fields are:

- Parent order fields: ‘trailing’ and ‘trailingStop’
- Child order fields: ‘child_trailing’ and ‘child_trailingStop’

Possible Field Values:

1. **‘trailingStop’** and **‘child_trailingStop’** with values:
 - ‘none’: when order is not trailing
 - ‘dynamic’: when order is trailing dynamic
 - ‘fixed’: when order is trailing fixed
1. **‘trailing’** and **‘child_trailing’** with values:
 - -1 if trailingStop=none
 - 0.1 if trailingStop=dynamic
 - {x} if trailingStop=fixed (x = value from DAS message)

Examples:**Parent & Child orders not trailing 'trailingStop'=none and 'trailing' = -1**

```
20201229-07:10:25.323 : {3: {'orderId': '45278495', 'trailingStop': 'none', 'limitPegBaseType': -1, 'stop': 1.19356, 'stopPegBaseType': -1, 'limit': 1.19448, 't': 3, 'stopRate': 1.19356, 'action': 'U', 'limitRate': 1.19448, 'child_trailing': -1, 'trailing': -1, 'child_trailingStop': 'none'}}
```

Parent & Child orders trailing = "dynamic" 'trailingStop'=dynamic and 'trailing' = 0.1

```
20201229-07:16:45.421 : {3: {'orderId': 'u'45278496', 'trailingStop': 'dynamic', 'limitPegBaseType': -1, 'stop': -0.1, 'stopPegBaseType': 1, 'limit': 0, 't': 3, 'stopRate': 1.19406, 'action': 'U', 'limitRate': 0, 'child_trailing': 0.1, 'trailing': 0.1, 'child_trailingStop': 'dynamic'}}
```

Parent & Child orders trailing = "fixed" 'trailingStop'='fixed' and 'trailing' = <<trailing value>>

```
20201229-07:20:08.489 : {3: {'orderId': '45278498', 'trailingStop': 'fixed', 'limitPegBaseType': -1, 'stop': -0.1, 'stopPegBaseType': 1, 'limit': 0, 't': 3, 'stopRate': 1.19366, 'action': 'U', 'limitRate': 0, 'child_trailing': 15, 'trailing': 12, 'child_trailingStop': 'fixed'}}
```