

Authentication API

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Trade API Authentication#

All Trade API access is authenticated by passing the public access key and a hashed string signed private secret key. Signing is performed using Hash-based message authentication code (HMAC) from the access key and secret key, a 'tonce' is also required to be successfully authenticated. To simply the current timestamp in microseconds. This value should not differ more than 30 secon server time. Access key and signed hash is passed using HTTP Basic Authentication method, and passed as HTTP header.

Guide to authenticate API access#

Create the signature string to be hashed based on the following mandatory parameters. Concat key value pairs and use '&' as the separator. The order of the parameters are important. All key must be present but the value can be empty (e.g. params).

- tonce (microseconds in 16 digits, make sure your system time is synchronized with NTP. Same value can only be used once per access key.)
- accesskey (account bound and unique per user)
- requestmethod (HTTP request method, only 'post' is supported)
- id (JSON-RPC request id)
- method (JSON-RPC method name)
- params (JSON-RPC method parameters)

Example 1

tonce=1377743828095093

&accesskey=1d87effa-e84d-48c1-a172-0232b86305dd

&requestmethod=post

&id=1

&method=getAccountInfo

¶ms=

Example 2

tonce=1377743828095093

&accesskey=1d87effa-e84d-48c1-a172-0232b86305dd

&requestmethod=post

&id=1

&method=buy0rder

¶ms=500,1

Perform HMAC on the signature string using your secret key. Use sha1 as hashing algorithm.

PHP
hash_hmac('sha1', \$signature, \$secretkey)

Utilize HTTP Basic authentication method to pass the credentials. There are two options to achie

Part of URI. Access key and hash can be passed directly when creating the URI request string

https://<accesskey>:<hash>@api.btcc.com/api_trade_v1.php

 HTTP Authorization header. Construct Authorization header manually and pass it along with t request. The credentials are based on access key and hash, separated by colon. The final strir he hase64 encoded as well (https://www.btcc.com)

```
### PHP ### PRODUCTS ABOUT NEWS(https://www.btcc.com/news) 33553467@
base64_encode(<accesskey>:<hash>) //PGFjY2Vzc2tleT46PGhhc2g+
# HTTP HEADER
Authorization: Basic PGFjY2Vzc2tleT46PGhhc2g+
```

Final part is to pass 'tonce' value as HTTP header together with the request. The tonce must be i with the tonce parameter used in the signature string.

```
# HTTP HEADER
Json-Rpc-Tonce: 1377743828095093
```

Make the API request. If something is incorrect a HTTP 401 Unauthorized will be returned.

Code Examples#

For more code samples, see the following links:

PHP: https://github.com/BTCChina/btcchina-api-php (https://github.com/BTCChina/btcchina-api-python: https://github.com/BTCChina/btcchina-api-python (https://github.com/BTCChina/btcchina-python)

Java: https://github.com/BTCChina/btcchina-api-java (https://github.com/BTCChina/btcchina-api-.NET C#: https://github.com/BTCChina/btcchina-api-csharp (https://github.com/BTCChina/btcchina-api-csharp)

C++: https://github.com/BTCChina/btcchina-api-cpp (https://github.com/BTCChina/btcchina-api-ja (https://github.c

PHP#

```
<?php
   function sign($method, $params = array()){
   $accessKey = "YOUR_ACCESS_KEY";
   $secretKey = "YOUR_SECRET_KEY";
   $mt = explode(' ', microtime());
   ts = mt[1] . substr(mt[0], 2, 6);
   $signature = urldecode(http_build_query(array(
    'tonce' => $ts,
    'accesskey' => $accessKey,
    'requestmethod' => 'post',
   'id' => 1,
    'method' => $method,
    'params' => '', //implode(',', $params),
   ))):
   var_dump($signature);
   $hash = hash_hmac('sha1', $signature, $secretKey);
   return arrav(
    'ts' => $ts,
    'hash' => $hash,
    'auth' => base64_encode($accessKey.':'. $hash),
   function request($method, $params){
   $sign = sign($method, $params);
   $options = array(
   CURLOPT HTTPHEADER => array(
    'Authorization: Basic ' . $sign['auth'],
    'Json-Rpc-Tonce: ' . $sign['ts'],
   );
   $postData = json_encode(array(
    'method' => $method.
    'params' => $params,
    'id' => 1,
   ));
   print($postData);
   $headers = array(
    'Authorization: Basic ' . $sign['auth'],
    'Json-Rpc-Tonce: ' . $sign['ts'],
   );
   $ch = curl init():
   curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
    curl_setopt($ch, CURLOPT_USERAGENT,
    'Mozilla/4.0 (compatible; BTC China Trade Bot; '.php_uname('a').'; PHP/'.phpversion().')'
   );
   curl_setopt($ch, CURLOPT_URL, 'https://api.btcc.com/api_trade_v1.php');
   curl_setopt($ch, CURLOPT_POSTFIELDS, $postData);
   curl_setopt($ch, CURLOPT_HTTPHEADER, $headers);
   curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, FALSE);
   // run the guery
   $res = curl_exec($ch);
   return $res;
    /**/
   try {
```



```
var_dump(request('getAccountInfo', array()));
} catch (Exception $e) {
  echo "Error:".$e->getMessage();
}
ABOUT NEWS(https://www.btcc.com/news) 335534676
}
?>
```

Python#

```
#!/usr/bin/python
# -*- coding: utf-8 -*-
import btcchina
access_key="YOUR_ACCESS_KEY"
secret_key="YOUR_SECRET_KEY"
bc = btcchina.BTCChina(access key.secret key)
''' These methods have no arguments '''
#result = bc.get_account_info()
#print result
#result = bc.get_market_depth2()
#print result
# NOTE: for all methods shown here, the transaction ID could be set by doing
#result = bc.get_account_info(post_data={'id':'stuff'})
#print result
''' buy and sell require price (CNY, 5 decimals) and amount (LTC/BTC, 8 decimals) '''
\#result = bc.buy(500,1)
#print result
#result = bc.sell(500,1)
#print result
''' cancel requires id number of order '''
#result = bc.cancel(2)
#print result
''' request withdrawal requires currency and amount '''
#result = bc.request_withdrawal('BTC',0.1)
#print result
^{\prime\prime\prime} get deposits requires currency. the optional "pending" defaults to true ^{\prime\prime\prime}
#result = bc.get_deposits('BTC',pending=False)
#print result
   get orders returns status for one order if ID is specified,
   otherwise returns all orders, the optional "open_only" defaults to true '''
#result = bc.get_orders(2)
#print result
#result = bc.get_orders(open_only=True)
#print result
''' get withdrawals returns status for one transaction if ID is specified,
    if currency is specified it returns all transactions,
    the optional "pending" defaults to true '''
#result = bc.get_withdrawals(2)
#print result
#result = bc.get_withdrawals('BTC',pending=True)
#print result
''' Fetch transactions by type. Default is 'all'.
    Available types 'all | fundbtc | withdrawbtc | fundmoney | withdrawmoney |
    refundmoney | buybtc | sellbtc | tradefee'
    Limit the number of transactions, default value is 10 '''
#result = bc.get_transactions('all',10)
#print result
'''get archived order returns a specified id order which is archived,
   the market default to "BTCCNY" and the "withdetail" default to false,if "withdetail" is spec
"true", the result will
  include the order's detail'''
#result = bc.get_archived_order(2,'btccny',False)
#print result
'''get archived orders returns the orders which order id is less than the specified "less_than_"
d".and the returned amount
  is defined in "limit", default value is 200, if "withdetail" is specified to "true",
   the result will include to orders' detail'''
#result = bc.get_archived_orders('btccny',200,10000,False)
#print result
```

```
#!/usr/bin/env python
# -*- coding: utf-8 -*-
```



```
import time
import re
                            PRODUCTS
                                            AROUT
                                                         NEWS (https://www.btcc.com/news)
import hmac
import hashlib
import base64
import httplib
import json
class BTCChina():
    def __init__(self,access=None,secret=None):
        self.access_key=access
        self.secret_key=secret
        self.conn=httplib.HTTPSConnection("api.btcchina.com")
    def _get_tonce(self):
         return int(time.time()*1000000)
    def _get_params_hash(self,pdict):
        pstring="
        # The order of params is critical for calculating a correct hash
        fields=['tonce', 'accesskey', 'requestmethod', 'id', 'method', 'params']
        for f in fields:
            if pdict[f]:
                 if f == 'params':
                     # Convert list to string, then strip brackets and spaces
                     # probably a cleaner way to do this
                     param_string=re.sub("[\[\]]]","",str(pdict[f]))
                     param_string=re.sub("'",'',param_string)
param_string=re.sub("True",'1',param_string)
param_string=re.sub("False",'',param_string)
param_string=re.sub("None",'',param_string)
                     pstring+=f+'='+param_string+'&'
                 else:
                     pstring+=f+'='+str(pdict[f])+'&'
            else:
                 pstring+=f+'=&'
        pstring=pstring.strip('&')
        # now with correctly ordered param string, calculate hash
        phash = hmac.new(self.secret_key, pstring, hashlib.sha1).hexdigest()
        return phash
    def _private_request(self,post_data):
        #fill in common post_data parameters
        tonce=self._get_tonce()
        post data['tonce']=tonce
        post_data['accesskey']=self.access_key
        post_data['requestmethod']='post'
        # If ID is not passed as a key of post_data, just use tonce
        if not 'id' in post_data:
            post_data['id']=tonce
        pd_hash=self._get_params_hash(post_data)
        # must use b64 encode
        auth_string='Basic '+base64.b64encode(self.access_key+':'+pd_hash)
        headers={'Authorization':auth_string,'Json-Rpc-Tonce':tonce}
        #post_data dictionary passed as JSON
        self.conn.request("POST",'/api_trade_v1.php',json.dumps(post_data),headers)
        response = self.conn.getresponse()
        # check response code, ID, and existence of 'result' or 'error'
        # before passing a dict of results
        if response.status == 200:
            # this might fail if non-json data is returned
             resp_dict = json.loads(response.read())
            # The id's may need to be used by the calling application,
            # but for now, check and discard from the return dict
             if str(resp_dict['id']) == str(post_data['id']):
                 if 'result' in resp_dict:
                     return resp_dict['result']
                 elif 'error' in resp_dict:
                     return resp_dict['error']
        else:
            # not great error handling....
            print "status:",response.status
print "reason:",response.reason
        return None
    def get_account_info(self,post_data={}):
        post_data['method']='getAccountInfo'
        post_data['params']=[]
        return self._private_request(post_data)
```

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```
\label{eq:def_def} \begin{array}{ll} \texttt{def} \ \ \texttt{get\_market\_depth2(self,limit=10, market="btccny", post\_data=\{}): \\ post\_data['method'] & PRODUTT & NEWS (https://www.btcc.com/news) \\ \end{array}
                                                                                             335534676
        post_data['params']=[limit, market]
        return self._private_request(post_data)
    def buy(self, price, amount, market="btccny", post_data={}):
        amountStr = "{0:.4f}".format(round(amount,4))
        post_data['method']='buy0rder2'
        if price == None:
            priceStr = None
        else:
            priceStr = "{0:.4f}".format(round(price,4))
        post_data['params']=[priceStr, amountStr, market]
        return self._private_request(post_data)
    def sell(self, price, amount, market="btccny", post_data={}):
        amountStr = "{0:.4f}".format(round(amount,4))
        post_data['method']='sellOrder2'
        if price == None:
            priceStr = None
        else:
            priceStr = "{0:.4f}".format(round(price,4))
        post_data['params']=[priceStr, amountStr, market]
        return self._private_request(post_data)
    def cancel(self,order_id, market = "btccny", post_data={}):
        post_data['method']='cancelOrder'
        post_data['params']=[order_id, market]
        return self._private_request(post_data)
    def request_withdrawal(self,currency,amount,post_data={}):
        post data['method']='requestWithdrawal
        post_data['params']=[currency,amount]
        return self._private_request(post_data)
    def get_deposits(self,currency='BTC',pending=True,post_data={}):
        post data['method']='getDeposits
        post data['params']=[currency,pending]
        return self._private_request(post_data)
    def get_orders(self,id=None,open_only=True,market="btccny",details=True,post_data={}):
        # this combines getOrder and getOrders
        if id is None:
            post_data['method']='getOrders'
            post_data['params']=[open_only, market]
        else:
            post_data['method']='get0rder'
            post_data['params']=[id, market,details]
        return self._private_request(post_data)
    def get_withdrawals(self,id='BTC',pending=True,post_data={}):
        # this combines getWithdrawal and getWithdrawals
        try:
             id = int(id)
            post_data['method']='getWithdrawal'
            post data['params']=[id]
        except:
             post_data['method']='getWithdrawals'
            post_data['params']=[id,pending]
         return self._private_request(post_data)
    def get_transactions(self,trans_type='all',limit=10,post_data={}):
        post_data['method']='getTransactions'
        post_data['params']=[trans_type,limit]
         return self._private_request(post_data)
    def get_archived_order(self,id,market='btccny',withdetail=False,post_data={}):
        post_data['method']='getArchivedOrder'
        post_data['params']=[id,market,withdetail]
        return self._private_request(post_data)
    def get_archived_orders(self,market='btccny',limit=200,less_than_order_id=0,withdetail=False
ata={}):
        post_data['method']='getArchivedOrders'
        post_data['params']=[market,limit,less_than_order_id,withdetail]
        return self._private_request(post_data)
```

JAVA

```
import javax.crypto.spec.SecretKeySpec;
import javax.crypto.Mac;
import javax.net.ssl.HttpsURLConnection;
import java.io.BufferedReader;
import java.io.DataOutputStream;
import java.io.InputStreamReader;
import java.net INDI.
```



```
import javainetiont,
    import javax.xml.bind.DatatypeConverter;
   class BTCCApiAuthentication(CTS ABOUT NEWS (https:
private static final String ACCESS_KEY = "YOUR_ACCESS_KEY";
                                                      NEWS (https://www.btcc.com/news)
                                                                                          335534676
   private static final String SECRET_KEY = "YOUR_SECRET_KEY";
   private static final String HMAC_SHA1_ALGORITHM = "HmacSHA1";
   public static String getSignature(String data,String key) throws Exception {
   // get an hmac_sha1 key from the raw key bytes
   {\tt SecretKeySpec \ signingKey = new \ SecretKeySpec(key.getBytes(), \ HMAC\_SHA1\_ALGORITHM);}
   // get an hmac_sha1 Mac instance and initialize with the signing key
   Mac mac = Mac.getInstance(HMAC_SHA1_ALGORITHM);
   mac.init(signingKey);
   // compute the hmac on input data bytes
   byte[] rawHmac = mac.doFinal(data.getBytes());
   return bytArrayToHex(rawHmac);
   private static String bytArrayToHex(byte[] a) {
   StringBuilder sb = new StringBuilder():
    for(byte b: a)
    sb.append(String.format("%02x", b&0xff));
   return sb.toString();
   public static void main(String args[]) throws Exception{
   String tonce = ""+(System.currentTimeMillis() * 1000);
   String params = "tonce="+tonce.toString()+"&accesskey="+ACCESS_KEY+"&requestmethod=post&id="
=getAccountInfo&params=";
   String hash = getSignature(params, SECRET_KEY);
   String url = "https://api.btcc.com/api_trade_v1.php";
   URL obj = new URL(url);
   HttpsURLConnection con = (HttpsURLConnection) obj.openConnection();
   String userpass = ACCESS_KEY + ":" + hash;
   String basicAuth = "Basic" + DatatypeConverter.printBase64Binary(userpass.getBytes());
   //add reugest header
    con.setRequestMethod("POST");
   con.setRequestProperty("Json-Rpc-Tonce", tonce.toString());
   con.setRequestProperty ("Authorization", basicAuth);
   String postdata = "{\"method\": \"getAccountInfo\", \"params\": [], \"id\": 1}";
   // Send post request
    con.setDoOutput(true);
   DataOutputStream wr = new DataOutputStream(con.getOutputStream());
   wr.writeBvtes(postdata):
   wr.flush():
   wr.close();
    int responseCode = con.getResponseCode();
   System.out.println("\nSending 'POST' request to URL : " + url);
   System.out.println("Post parameters : " + postdata);
   System.out.println("Response Code : " + responseCode);
   BufferedReader in = new BufferedReader(
   new InputStreamReader(con.getInputStream()));
   String inputLine;
   StringBuffer response = new StringBuffer();
   while ((inputLine = in.readLine()) != null) {
    response.append(inputLine);
   in.close();
   //print result
   System.out.println(response.toString());
   }
```

.NET C#

```
using System;
using System.Net;
using System.Text;
using System.Collections.Specialized;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.IO;
using System.Net.Security;
using System.Security.Cryptography.X509Certificates;
namespace BTCCApiAuthentication {
class MainClass {
public static void Main (string[] args) {
// For https.
ServicePointManager.ServerCertificateValidationCallback = delegate { return true; };
// Enter your personal API access key and secret here
string accessKey = "YOUR_ACCESS_KEY";
string secretKey = "YOUR_SECRET_KEY";
string method = "getAccountInfo";
TimeSpan timeSpan = DateTime.UtcNow - new DateTime (1970, 1, 1);
long milliSeconds = Convert.ToInt64(timeSpan.TotalMilliseconds * 1000);
string tonce = Convert.ToString(milliSeconds);
NameValueCollection parameters = new NameValueCollection() {
{ "tonce", tonce },
 "accesskey", accessKey },
{ "requestmethod", "post" },
```

{ "id". "1" }.



```
{ "10", 1 ,, { "method", method }, PRODUCTS
                                     AROUT
                                                 NEWS (https://www.btcc.com/news)
                                                                                    335534676
{ "params", "" }
string paramsHash = GetHMACSHA1Hash(secretKey, BuildQueryString(parameters));
string base64String = Convert.ToBase64String(
Encoding.ASCII.GetBytes(accessKey + ':' + paramsHash));
string url = "https://api.btcc.com/api_trade_v1.php";
string postData = "{\"method\": \"" + method + "\", \"params\": [], \"id\": 1}";
SendPostByWebRequest(url, base64String, tonce, postData);
private static void SendPostByWebClient(string url, string base64,
string tonce, string postData) {
using (WebClient client = new WebClient()) {
client.Headers["Content-type"] = "application/json-rpc";
client.Headers["Authorization"] = "Basic " + base64;
client.Headers["Json-Rpc-Tonce"] = tonce;
try {
byte[] response = client.UploadData(
url. "POST". Encoding.Default.GetBvtes(postData)):
Console.WriteLine("\nResponse: {0}", Encoding.UTF8.GetString(response));
} catch (System.Net.WebException ex) {
Console.WriteLine(ex.Message);
public static void SendPostByWebRequest(string url, string base64,
string tonce, string postData) {
WebRequest webRequest = WebRequest.Create(url);
//WebRequest webRequest = HttpWebRequest.Create(url);
if (webRequest == null) {
Console.WriteLine("Failed to create web request for url: " + url);
return;
byte[] bytes = Encoding.ASCII.GetBytes(postData);
webRequest.Method = "POST";
webRequest.ContentType = "application/json-rpc";
webRequest.ContentLength = bytes.Length;
webRequest.Headers["Authorization"] = "Basic " + base64;
webRequest.Headers["Json-Rpc-Tonce"] = tonce;
try {
// Send the json authentication post request
using (Stream dataStream = webRequest.GetRequestStream()) {
dataStream.Write(bytes, 0, bytes.Length);
dataStream.Close();
// Get authentication response
using (WebResponse response = webRequest.GetResponse()) {
using (var stream = response.GetResponseStream()) {
using (var reader = new StreamReader(stream)) {
Console.WriteLine("Response: " + reader.ReadToEnd());
} catch (WebException ex) {
Console.WriteLine(ex.Message);
private static string BuildQueryString(NameValueCollection parameters) {
List<string> keyValues = new List<string>();
foreach (string key in parameters) {
keyValues.Add(key + "=" + parameters[key]);
return String.Join("&", keyValues.ToArray());
private static string GetHMACSHA1Hash(string secret_key, string input) {
HMACSHA1 hmacsha1 = new HMACSHA1(Encoding.ASCII.GetBytes(secret_key));
MemoryStream stream = new MemoryStream(Encoding.ASCII.GetBytes(input));
byte[] hashData = hmacsha1.ComputeHash(stream);
// Format as hexadecimal string.
StringBuilder hashBuilder = new StringBuilder();
foreach (byte data in hashData) {
hashBuilder.Append(data.ToString("x2"));
return hashBuilder.ToString();
}
}
}
```

C++

```
#include <iostream>
#include <math.h>
#include <netdb.h>
#include <openssl/ssl.h>
#include <openssl/err.h>
#include estdin ha
```



```
#IIIC CUUC \SCUIDIII
#include <sstream>
#include "HMAC_SHA1.h" PRODUCTS
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                                                  NEWS (https://www.btcc.com/news)
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using namespace std:
// Reference:
// http://www.codeproject.com/Articles/22118/C-Class-Implementation-of-HMAC-SHA
string getHmacSha1(string key, string content) {
unsigned char digest[20];
CHMAC_SHA1 HMAC_SHA1;
HMAC_SHA1.HMAC_SHA1((unsigned char *) content.c_str(), content.size(),
(unsigned char *) key.c_str(), key.size(), digest);
stringstream output;
char result[3]:
for (int i = 0; i < 20; i++) {
sprintf(result, "%02x", digest[i]);
output <lt;< result;</pre>
return output.str():
long long getMilliSeconds() {
struct timeval start, end;
gettimeofday( &start, NULL );
return start.tv_sec * 1000000LL + start.tv_usec;
// Connects and gets the socket handle. Returns 0 if any errors.
int SocketConnect(string host_name, int port) {
struct hostent* host = gethostbyname(host_name.c_str());
int handle = socket(AF_INET, SOCK_STREAM, 0);
if (handle == -1) {
cout << "Error when creating socket to " << host_name;</pre>
return 0;
struct sockaddr_in server;
server.sin_family = AF_INET;
server.sin_port = htons(port);
server.sin addr = *((in addr *) host->h addr);
bzero(&(server.sin zero), 8);
int error = connect(handle, (sockaddr *) &server, sizeof(sockaddr));
if (error == -1) {
cout << "Error when connecting " << host_name;</pre>
return 0:
}
return handle;
// Establishes a SSL connection. Return false if errors.
bool SslConnect(const string& server, int port,
int& socket, SSL*& sslHandle, SSL_CTX*& sslContext) {
socket = SocketConnect(server, port);
if (socket == 0) {
return false;
SSL_load_error_strings();
SSL_library_init();
// Use SSL 2 or 3, bind SSL to socket, and then do the SSL connection.
if ((sslContext = SSL_CTX_new(SSLv23_client_method())) == NULL ||
(sslHandle = SSL_new(sslContext)) == NULL ||
SSL_set_fd(sslHandle, socket) != 1 ||
SSL_connect(sslHandle) != 1) {
ERR_print_errors_fp(stderr);
return false:
return true;
string ReadAllFromSSL(SSL* ssl_handle) {
const int BUCKET READ SIZE = 1024;
char buffer[BUCKET_READ_SIZE];
stringstream result;
int received_bytes = std::numeric_limits<int>::max();
while (received_bytes >= BUCKET_READ_SIZE) {
received_bytes = SSL_read(ssl_handle, buffer, BUCKET_READ_SIZE);
if (received_bytes > 0) {
buffer[received_bytes] = '\0';
result << buffer;
} else {
cout << "Error when read from SSL"; // To get the error reason, use SSL_get_error.</pre>
return "";
return result.str():
string Base64Encode(const string& message) {
// Do encoding.
BIO* bio = BIO_new(BIO_f_base64());
BIO* bmem = BIO_new(BIO_s_mem());
BIO_push(bio, bmem);
BIO_set_flags(bio, BIO_FLAGS_BASE64_NO_NL); // // Ignore newlines
BIO_write(bio, message.c_str(), message.size());
BIO flush(bio):
```



```
// Get results.
char* data;
NEWS (https://www.btcc.com/news)
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string encoded = string(data, length);
BIO free all(bio);
return encoded;
string GetBtcPostContent(const string& accessKey, const string& secretKey,
const string& method) {
// Get authorization token.
long long tonce = getMilliSeconds();
stringstream authInput;
authInput << "tonce=" << tonce</pre>
<< "&accesskey=" << accessKey
<< "&requestmethod=post&id=1&method=" << method
<< "&params=";
string paramsHash = getHmacSha1(secretKey, authInput.str());
string authToken = Base64Encode(accessKey + ":" + paramsHash);
// Get post content.
string json_content = "{\"method\": \"getAccountInfo\", \"params\": [], \"id\": 1}";
stringstream postStream;
postStream << "POST /api_trade_v1.php HTTP/1.1\r\n"</pre>
<< "Content-Type: application/json-rpc\r\n"</pre>
<< "Authorization: Basic " << authToken << "\r\n"</pre>
<< "Json-Rpc-Tonce: " << tonce << "\r\n"
<< "Content-Length: " << json_content.size() << "\r\n"</pre>
<< "Host: api.btcc.com\r\n\r\n"
<< ison_content;
string postContent = postStream.str();
cout << "POST content: " << postStream.str() << endl;</pre>
return postContent;
int main(int argc, char **argv) {
string accessKey = "YOUR_ACCESS_KEY";
string secretKey = "YOUR_SECRET_KEY";
string method = "getAccountInfo";
string postContent = GetBtcPostContent(accessKey, secretKey, method);
// Start the real SSL request.
int socket = 0;
SSL* sslHandle = NULL;
SSL_CTX* sslContext = NULL;
if (SslConnect("api.btcc.com", 443, socket, sslHandle, sslContext)) {
SSL_write(sslHandle, postContent.c_str(), postContent.size());
string response = ReadAllFromSSL(sslHandle);
cout << "Get response: " << response << endl;</pre>
// Cleanups no matter connect succeed or not.
if (socket != 0) {
close(socket);
if (sslHandle) {
SSL shutdown(sslHandle):
SSL_free(sslHandle);
if (sslContext) {
SSL_CTX_free(sslContext);
return 0;
```

Trade API v2.0.1.4#

2016-01-14 Add methods for archived orders:

- getArchivedOrder
- getArchivedOrders

Trade API v2.0.1.3#

2014-11-19 Changed the type of "amount" and "price" from "number" to "string" in the methods buyOrder2 and sellOrder2.

Trade API v2.0.1.2#

2014-11-17 Added loan parameter to getAccountInfo method.

Trade API v2.0.1.1#

2014-10-17 Update the description of requestWithdrawal method.

Trade API v2.0.1#

2014-08-21 Added two more parameters for getTransactions API method: "since" and "sincetype

Trade API v2.0#

2014-08-15 Released stop order API methods for all markets:

buyStopOrder



sellStopOrder

• getStopOrder PRODUCTS ABOUT NEWS (https://www.btcc.com/news) 335534676

getStopOrders

cancelStopOrder

Trade API v1.9#

2014-08-13 Added "withdetail" parameters for getOrder; added "since" and "withdetail" paramet getOrders.

Trade API v1.8#

2014-07-21 Added more parameters for GetAccountInfo . The parameter now could be "all", "bal "frozen" or "profile".

Trade API v1.7#

2014-07-17 Added Iceberg Support for all markets:

- buylcebergOrder
- sellicebergOrder
- getIcebergOrder
- getIcebergOrders
- cancellcebergOrder

Trade API v1.6#

2014-07-10 Added links for more code samples.

Trade API v1.5.2#

2014-04-02 API updated to reduce client requests and network bandwidth.

- Updated getOrders and getMarketDepth2 to support 'market' parameter value 'ALL'.
- Added full pagination support for getOrders and getTransanctions.

Trade API v1.5.1#

2014-03-28 This release contains minor updates and bug fixes.

- Last update timestamp added in getMarketDepth2.
- Corrected the market parameter to standardized format.
- Methods getWithdrawals and getDeposits returns an empty array instead of error.
- Increased decimal places to 4 when placing BTC orders.
- Improved handling of market orders (price=null) when calling buyOrder2 and sellOrder2.

Trade API v1.5#

2014-03-18 Release LTC/BTC market. Please use market parameter as "ltcbtc".

Trade API v1.4#

2014-03-17 Support permission on limiting withdrawal. Permission now is 1 for Read-only, 3 for 5 for Withdraw only, and 7 for trade and withdrawal.

Trade API v1.3#

2014-03-7 Trade API v1.3 now support LTC. This update is compatible with existing interface.

Change log#

- Added support for LTC currency. All affected methods have a new optional currency or marke parameter that can be used. BTC currency and BTC-CNY market will used as default if the currency parameter is missing.
- Added API key permission level in getAccountInfo
- Transactions now have new types: buyltc, sellltc, fundltc, refundltc, withdrawltc. Documentation updated for existing type: rebate
- · Added new statuses to withdrawal: cancel, refund, processing

Trade API v1.2#

Trade API v1.2 is using same URL as v1, https://api.btcc.com/api_trade_v1.php (https://api.btcc.com/api_trade_v1.php).

Change log#

Added methods buyOrder2 and sellOrder2. These will now return order id. Methods buyOrder ϵ sellOrder are now deprecated.

Trade API v1.1#

Trade API v1.1 is using same URL as v1, https://api.btcc.com/api_trade_v1.php (https://api.btcc.com/api_trade_v1.php).

Change log#

- Added method getTransactions.
- Method getMarketDepth is deprecated. Use getMarketDepth2.



- Fixed parameter validation for all API methods.
- Updated error codes table ODUCTS
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Trade API v1#

- Trade API is implemented based on JSON-RPC 2.0. For more information about JSON-RCP 2.0 specification please refer to their official documentation.
 - http://www.jsonrpc.org/specification (http://www.jsonrpc.org/specification)
- JSON-RPC implementation for popular programming languages can be found here. http://json-rpc.org/wiki/implementations (http://json-rpc.org/wiki/implementations)

Error Codes#

All API method calls will return a JSON-RPC error object if the request fails or an unexpected error occurred. **Code Message** -32000 Intern

- -32003 Insufficient CNY balance
- -32004 Insufficient BTC balance
- -32005 Order not found
- -32006 Invalid user
- -32007 Invalid currency
- -32008 Invalid amount
- -32009 Invalid wallet address
- -32010 Withdrawal not found
- -32011 Deposit not found
- -32017 Invalid type
- -32018 Invalid price
- -32019 Invalid parameter
- -32025 Order already cancelled
- -32026 Order already completed
- -32062 Lack of liquidity
- -32065 Invalid market
- -32086 Processing order

```
{ "error":{
   "code":-32003,
   "message":"Insufficient CNY balance",
   "id": 1
   }
}
```

Return Objects#

Successful method calls will return one of the following objects. Examples of each objects is four Method section.

Profile#

Name	Value	Description
username	string	Account user name.
trade_password_enabled	boolean	Indicate if trade password has been set.
otp_enabled	boolean	Indicate if One Time Password (Google Authenticator) has been set.
trade_fee	number	BTC trade fee.
trade_fee_cnyltc	number	LTC trade fee.
trade_fee_btcltc	number	Swap trade fee.
daily_btc_limit	number	Maximum amount of BTC withdrawal per day.
daily_ltc_limit	number	Maximum amount of LTC withdrawal per day.
btc_deposit_address	string	Bitcoin address to deposit BTC.
btc_withdrawal_address	string	Bitcoin address to withdraw BTC.
ltc_deposit_address	string	Litecoin address to deposit LTC.
ltc_withdrawal_address	string	Litecoin address to withdraw LTC.
api_key_permission	int	Access permission for the API key. [1] Read account information. [3] Tradir enabled. [5] Withdrawal only [7] Trading and Withdrawal

Balance#

Name	Value	Description	
currency	string	Currency code.	
symbol	string	Currency symbol.	
amount	string	Value in decimal precision.	
amount_integer	string	Integer representation of the value.	

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amount_decimal Integer Scale, which is number of digits to the right of the decimal of the given currency.

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Name	Value	Description
currency	string	Currency code.
symbol	string	Currency symbol.
amount	string	Value in decimal precision.
amount_integer	string	Integer representation of the value.
amount_decimal	integer	Scale, which is number of digits to the right of the decimal of the given currency.

Loan#

Name	Value	Description	
currency	string	Currency code.	
symbol	string	Currency symbol.	
amount	string	Value in decimal precision.	
amount_integer	string	Integer representation of the value.	
amount_decimal	integer	Scale, which is number of digits to the right of the decimal of the given currency.	

Order#

Name	Value	Description
id	integer	Order id.
type	string	[bid ask]
price	number	Price for 1 LTC/BTC.
currency	string	[CNY]
amount	number	If less than amount_original then this order has been partially filled
amount_original	number	Original amount.
date	integer	Unix time in seconds since 1 January 1970.
status	string	[open closed cancelled pending error insufficient_balance]
detail	object[]	Order details, optional. Return an array of object[]: order_detail

Withdrawal#

Name	Value	Description	
id	integer	Withdrawal id.	
address	string	Bitcoin/Litecoin wallet address.	
currency	string	[BTC LTC]	
amount	number	Total amount.	
date	integer	Unix time in seconds since 1 January 1970.	
transacti	string	Bitcoin transaction id.	
status	string	[pending completed processing cancel refund]	

Deposit#

Name	Value	Description	
id	integer	Deposit id.	
address	string	Bitcoin/Litecoin wallet address.	
currency	string	[BTC LTC]	
amount	number	Total amount.	
date	integer	Unix time in seconds since 1 January 1970.	
status	string	[pending completed]	

Market_depth#

Name	Value	Description	
bid	object[]	List of bid objects. Sorted by highest price first.	
ask	object[]	List of ask objects. Sorted by lowest price first.	

Bid / ask#



price	number		Price for 1 LTC/BTC.	
amount	PROBUCTS	ABOUT	Amount of psi (/yg/w.btcc.com/news)	33553467(

Transaction#

Name	Value	Description	
id	integer	Transaction id.	
type	string	Type of transaction. 'fundbtc withdrawbtc fundmoney withdrawmoney refundmor buybtc sellbtc refundbtc tradefee rebate fundltc refundltc withdrawltc buy sellltc'	
btc_amount	number	Amount of BTC exchanged. Negative value indicate deduction from account.	
ltc_amount	number	Amount of LTC exchanged. Negative value indicate deduction from account.	
cny_amount	number	Amount of CNY exchanged. Negative value indicate deduction from account.	
date	integer	Unix time in seconds since 1 January 1970.	

Iceberg_order#

Name	Value	Description	
id	integer	Iceberg order id.	
type	string	[bid ask]	
price	number	Price for 1 BTC/LTC.	
market	string	[BTCCNY LTCCNY LTCBTC]	
amount	number	Amount remaining unfilled in the iceberg order.	
amount_original	number	Original full amount of the iceberg order	
disclosed_amount	number	The visible portion of the iceberg. This is the amount used when creating the order the iceberg order, This amount cannot be greater than the original amount.	
variance	number	Variation of the disclosed portion so each created order is different.	
date	integer	Unix time in seconds since 1 January 1970.	
status	string	[open closed cancelled error]	

Order_detail#

Name	Value	Description	
dateline	integer	Unix time in seconds since 1 January 1970.	
price	number	Price for 1 BTC/LTC.	
amount	number	Amount filled in this trade.	

Stop_order#

Name	Value	Description	
id	integer	stop order id.	
type	string	[bid ask]	
stop_price	number	Price for 1 BTC/LTC to trigger the stop order. Can be dynamically set by the syste trailing amount/percentage is specified.	
trailing_amount	number	The trailing amount to determine the stop price.	
trailing_percentage	number	The trailing percentage to determine the stop price.	
price	number	Price for 1 BTC/LTC for the order to be placed.	
market	string	[BTCCNY LTCCNY LTCBTC]	
amount	number	Amount used for the order to be placed.	
date	integer	Create time in Unix time in seconds since 1 January 1970.	
status	string	[open closed cancelled error]	
order_id	integer	Order id of the order created from this stop order, or null if stop order still open cancelled.	

Basic API Methods#

BuyOrder#

This method is deprecated. Please use buyOrder2.

BuyOrder2#

Place a buy order. This method will return order id.

Parameters#

Name	Type	Required	Description
	.76-		



price	string	YES P	The price in quote currency to buy 1 base currency. Max 2 decimals for BTC/CNነ አታይራዊያ marksts ወደ decimals ለውሃታ የአርርት የተመረሰ ነው። price to 'null'.
amount	string	YES	The amount of LTC/BTC to buy. Supports 4 decimal places for BTC with a minimamount of 0.001, and 3 decimal places for LTC.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"buyOrder2","params":[\"500\",\"1\"],"id":1}
{"method":"buyOrder2","params":[\"500.01\",\"1.2312\",\"BTCCNY\"],"id":1}
## market order ##
{"method":"buyOrder2","params":[null,\"1\"],"id":1}
```

Returns#

Name	Value	Description	
result	integer	Returns order id if order placed successfully.	

JSON Response#

```
{"result":12345,"id":"1"}
```

CancelOrder#

Cancel an active order if the status is 'open'.

Parameters#

Name	Туре	Required	Description
id	number	YES	The order id to cancel.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCBTC]

JSON Request#

```
{"method":"cancelOrder","params":[2],"id":1}
```

Returns#

Name	Value	Description
result	boolean	Returns true if cancellation successful.

JSON Response#

```
{"result":true,"id":"1"}
```

GetAccountInfo#

Get stored account information and user balance.

Parameters#

Name	Туре	Required	Description
type	string	No	Could be "all","balance","frozen", "loan" or "profile", default to "all".

JSON Request#

```
{"method":"getAccountInfo","params":[],"id":1}
## only get the balance ##
{"method":"getAccountInfo","params":["balance"],"id":1}
```

Returns#

Name	Value	Description	
result	object[]	Returns objects profile, balance, frozen and loan.	

```
{
   "result": {
    "profile": {
    "username": "btc",
    "trade_password_enabled": true,
    "otp_enabled": true,
   "trade_fee": 0,
```



```
"trade_fee_cnyltc": 0,
    "trade_fee_btcltc": 0, PRODUCTS
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    "daily_btc_limit": 10,
    "daily_ltc_limit": 300,
    "btc_deposit_address": "123myZyM9jBYGw5EB3wWmfgJ4Mvqnu7gEu",
    "btc_withdrawal_address": "123GzXJnfugniyy7ZDw3hSjkm4tHPHzHba",
    "ltc_deposit_address": "L12ysdcsNS3ZksRrVWMSoHjJgcm5VQn2Tc",
    "ltc_withdrawal_address": "L23GzXJnfugniyy7ZDw3hSjkm4tHPHzHba",
    "api_key_permission": 3
   },
    "balance": {
    "btc": {
    "currency": "BTC",
    "symbol": "\u0e3f"
    "amount": "100.00000000",
    "amount_integer": "10000000000",
    "amount_decimal": 8
    "ltc": {
   "currency": "LTC",
"symbol": "\u0141",
"amount": "0.00000000",
    "amount_integer": "0",
    "amount_decimal": 8
    },
    "cny": {
    "currency": "CNY",
    "symbol": "\u00a5",
    "amount": "50000.00000",
    "amount_integer": "5000000000",
    "amount_decimal": 5
    }
    "frozen": {
    "btc": {
    "currency": "BTC",
    "symbol": "\u0e3f"
    "amount": "0.00000000",
    "amount integer": "0",
    "amount_decimal": 8
    "ltc": {
    "currency": "LTC",
    "symbol": "\u0141",
    "amount": "0.00000000",
    "amount_integer": "0",
    "amount_decimal": 8
    "cny": {
    "currency": "CNY",
    "symbol": "\u00a5",
    "amount": "0.00000",
    "amount_integer": "0",
    "amount_decimal": 5
    "loan": {
    "btc": {
   "currency":"BTC",
"symbol":"\u0e3f",
"amount":"0.00000000",
    "amount_integer":"0",
    "amount_decimal":8
    "cny":{
    "currency":"CNY",
    "symbol":"\u00a5",
"amount":"0.00000",
    "amount_integer":"0",
    "amount_decimal":5
    }
    },
    "id": "1"
}
```

GetDeposits#

Get all user deposits.

Parameters#

Name	Туре	Required	Description
currency	string	YES	[BTC LTC]
pendingonly	boolean	NO	Default is 'true'. Only open deposits are returned.



JSON Request#

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```
{"method":"getDeposits","params":["BTC"],"id":1}
```

Returns#

Name	Value	Description
result	object[]	deposit

JSON Response#

```
{"result":{
    "deposit":[{
    "id":49751.
    "address": "mufUAWHCius1jZpjB4zCUwzaRbYuwXCupC",
    "currency":"BTC",
    "amount":1,
    "date":1376910685,
    "status":"pending"
   },{
    "id":49749,
    "address": "mkrmyZyM9jBYGw5EB3wWmfgJ4Mvqnu7gEu",
    "currency":"BTC",
    "amount":2,
    "date":1376906645,
    "status":"completed"
    }]
}
```

GetMarketDepth#

This method is deprecated. Please use getMarketDepth2.

GetMarketDepth2#

Get the complete market depth. Returns all open bid and ask orders.

Parameters#

Name	Type	Required	Description
limit	integer	NO	Limit number of orders returned. Default is 10 per side.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"getMarketDepth2","params":[],"id":1}
```

Returns#

Name	Value	Description
result	object	market_depth

JSON Response#

```
{"result":{
   "market_depth":{
   "bid":[{
   "price":99,
   "amount":1
   },{
   "price":98,
   "amount":2
   }],
   "ask":[{
   "price":100,
   "amount":0.997
   },{
   "price":101,
   "amount":2
   }]}
    "id":"1"
```

GetOrder#

Get an order, including its status. When "withdetail" parameter is set to true, all the trade details order will be included in the response.



Parameters#

		PRODU	JCTS A	BOUT	NEWS (https://www.btcc.com/news)	33553467@
Name	Туре	Required	Description	on		
id	number	YES	The order id	d.		
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]			
withdetail	boolean	NO	Return the trade details or not for this order. Can be set to true, false. D false, no detail will be returned.		ıe, false. Defaı	

JSON Request#

```
{"method":"getOrder","params":[2],"id":1}
## fetch the order from BTCCNY market with order id=2 with order details included ##
{"method":"getOrder","params":[2,"BTCCNY",true],"id":1}
```

Returns#

Name	Value	Description
result	object	order

JSON Response#

```
{ "result":{
   "order":{
   "id":2,
   "type":"ask",
   "price":"46.84",
   "currency":"CNY",
   "amount":"0.00000000",
   "amount_original":"3.18400000",
   "date":1406860694,
   "status":"closed",
   "details":[{
   "dateline":"1406860696",
   "price":"46.84",
   "amount":3.184}]
   }},
   "id":"1"
}
```

GetOrders#

Get all orders, including status.

Parameters#

Name	Туре	Required	Description	
openonly	boolean	NO	Default is 'true'. Only open orders are returned.	
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC ALL]	
limit	integer	NO	Limit the number of transactions, default value is 1000.	
offset	integer	NO	Start index used for pagination, default value is 0.	
since	integer	NO	Define the starting time from when the orders are fetched.	
withdetail	boolean	NO	Return the trade details or not for this order. Can be set to true, false. Defau false, no detail will be returned.	

JSON Request#

```
{"method":"getOrders","params":[],"id":1}
{"method":"getOrders","params":[false],"id":1}
## all orders from all markets limit to 2 orders per market ##
{"method":"getOrders","params":[false,"ALL",2],"id":1}
## all orders from all markets starting from unix time 1377671475 limit to 10 filled orders per with order details included ##
{"method":"getOrders","params":[true,"ALL",10,0,1377671475,true],"id":1}
```

Returns#

Name	Value	Description
result	object[]	order

```
## single market ##
    {"result":{
      "order":[{
      "id":2,
      "type":"hid"
```



```
cype . Did ,
   "price":500,
   "currency":"cny",
                          PRODUCTS
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   "amount":0.9,
   "amount_original":0.9,
   "date":1377671476,
   "status":"cancelled"
   },{
   "id":3,
   "type":"bid",
   "price":501,
   "currency":"cny",
   "amount":0.8,
   "amount_original":0.8,
   "date":1377671475,
   "status":"cancelled"
   }]
    "id":"1"
   }
## all markets ##
   "result": {
   "order_btccny": [
   "id": 13942927,
   "type": "bid",
   "price": "2000.00",
   "currency": "CNY",
   "amount": "0.00100000",
   "amount_original": "0.00100000",
   "date": 1396255376,
   "status": "open"
   },
   "id": 13942807,
   "type": "bid",
   "price": "2000.00",
   "currency": "CNY",
   "amount": "0.00100000",
   "amount_original": "0.00100000",
   "date": 1396255245,
   "status": "open"
   "order_ltccny": [
   "order_ltcbtc": [
    "id": "1"
```

GetTransactions#

Get transactions log.

Parameters#

Name	Туре	Required	Description
type	string	NO	Fetch transactions by type. Default is 'all'. Available types 'all fundbtc withdrawhtcfee refundbtc fundltc withdrawhtc withdrawhtcfee refundl fundmoney withdrawmoney withdrawmoney buybtc buyltc sellltc tradefee rebate '
limit	integer	NO	Limit the number of transactions, default value is 10.
offset	integer	NO	Start index used for pagination, default value is 0.
since	integer	NO	To fetch the transactions from this point, which can either be an transaction unix timestamp, default value is 0.
sincetype	string	NO	Specify the type of 'since' parameter, can either be 'id' or 'time'. default value

JSON Request#

```
{"method":"getTransactions","params":[],"id":1}
{"method":"getTransactions","params":["buybtc",2],"id":1}
# fetch 100 transactions from transaction id 101 #
{"method":"getTransactions","params":["all",100,0,101,"id"],"id":1}
```

Returns#

Name	Value	Description
result	object[]	transaction



JSON Response#

```
NEWS (https://www.btcc.com/news)
                                PRODUCTS
                                                   ABOUT
                                                                                                            335534676
    "result":{"
    transaction":[{
    "id":8,
    "type":"buybtc",
    "btc_amount":"0.00100000",
"cny_amount":"-0.10000",
    "date":1383128749
    },{
    "id":7,
    "type":"sellbtc",
    "btc_amount":"-0.00100000",
"cny_amount":"0.10000",
    "date":1383128749
    }]
    },
    "id":"1"
}
```

GetWithdrawal#

Get withdrawal status.

Parameters#

Name	Туре	Required	Description
id	number	YES	The withdrawal id.
currency	string	NO	Default is "BTC". Can be [BTC LTC]

JSON Request#

```
{"method":"getWithdrawal","params":[1],"id":1}
```

Returns#

Name	Value	Description
result	object	withdrawal

JSON Response#

```
{ "result":{
   "withdrawal":{
   "id":20351,
   "address":"15MGzXJnfugniyy7ZDw3hSjkm4tHPHzHba",
   "currency":"BTC",
   "amount":0.1,
   "date":1376891209,
   "transaction":null,
   "status":"pending"
   }
},
   "id":"1"
}
```

GetWithdrawals#

Get all withdrawals.

Parameters#

Name	Туре	Required	Description
currency	string	YES	[BTC LTC]
pendingonly	boolean	NO	Default is 'true'. Only pending withdrawals are returned.

JSON Request#

```
{"method":"getWithdrawals","params":["BTC"],"id":1}
```

Returns#

Name	Value	Description
result	object[]	withdrawal

```
{ "result":{
    "withdrawal":[{
```



```
"id":20351,
    "address": "15MGzXJnfugniyy7ZDw3hSjkm4tHPHzHba",
    "currency":"BTC",
                           PRODUCTS
                                           ABOUT
                                                        NEWS (https://www.btcc.com/news)
                                                                                           33553467@
    "amount":0.1.
    "date":1376891209,
    "transaction":null,
    "status": "pending"
    },{
    "id":20352,
    "address": "15MGzXJnfugniyy7ZDw3hSjkm4tHPHzHba",
    "currency": "BTC",
    "amount":0.1,"date":1376891268,
    "transaction":null.
    "status":"pending"
    }],
    "id":"1"
}
```

RequestWithdrawal#

Make a withdrawal request. For security consideration, no BTC withdrawal address parameter is and here BTC withdrawals will pick last used withdrawal address from user profile. If the user no change the withdrawal address, this withdrawal action should be performed manually on our working against this new withdrawal address. NOTE: The withdrawal amount should be more than 0

Parameters#

Name	Туре	Required	Description
currency	string	YES	Currency short code, [BTC LTC].
amount	number	YES	Amount to withdraw.

JSON Request#

```
{"method":"requestWithdrawal","params":["BTC",0.1],"id":1}
```

Returns#

Name	Value	Description
result	integer	Returns the withdrawal id.

JSON Response#

```
{"result":{"id":"20362"},"id":"1"}
```

SellOrder#

This method is deprecated. Please use sellOrder2.

SellOrder2#

Place a sell LTC/BTC order. This method will return order id.

Parameters#

Name	Туре	Required	Description
price	string	YES	The price in quote currency to sell 1 base currency. Max 2 decimals for BTC/CNY LTC/CNY markets. 4 decimals for LTC/BTC market. Market order is executed by s price to 'null'.
amount	string	YES	The amount of LTC/BTC to sell. Supports 4 decimal places for BTC with a minima amount of 0.001, and 3 decimal places for LTC.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"sellOrder2","params":[\"500\",\"1\"],"id":1}
{"method":"sellOrder2","params":[\"500.01\",\"1.231\",\"LTCCNY\"],"id":1}
## market order ##
{"method":"sellOrder2","params":[null,\"1\"],"id":1}
```

Returns#

Name	Value	Description
result	integer	Returns order id if order placed successfully.

```
/"recul+":122/5 "id":"1"l
```

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Iceberg Order API Methods#UCTS

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An iceberg order executes a large quantity order in smaller portions for the purpose of hiding th quantity. When the visible order is completely filled, the next portion is sent to the market, until entire iceberg order is filled. A variance can be supplied to vary the amount of the disclosed portused to hide the iceberg order. You must have enough amount in your balance at time of the replace the order, but the total amount can be lower after the iceberg order is placed. If at the tim subsequent order of the disclosed amount is placed and you do not have enough in your balance entire order is cancelled. Any errors in placing the subsequent orders will also cancel the entire i order. If you cancel or update a limit order created by the iceberg order, the entire iceberg order cancelled.

BuylcebergOrder#

Place a buy iceberg order. This method will return an iceberg order id.

Parameters#

Name	Туре	Required	Description	
price	number	YES	The price in quote currency to buy 1 base currency. Max 2 decimals for BTC/CNY and LTC/CNY markets. 3 decimals for LTC/BTC market. Market iceberg order is executed by setting price to 'null'.	
amount	number	YES	The total amount of LTC/BTC to buy. Supports 3 decimal places for BTC and LTC.	
disclosed_amount	number	YES	The disclosed amount of LTC/BTC to buy. Supports 3 decimal places for BTC and LTC.	
variance	number	NO	Default to 0. Must be less than 1. When given, used as variance to the disclosed amount when the order is created.	
market	string	NO	Default to "BTCCNY". [BTCCNY	LTCCN

JSON Request#

```
{"method":"buyIcebergOrder","params":[500,100,5,0.2],"id":1}
## market order ##
{"method":"buyIcebergOrder","params":[null,100,5,0.2],"id":1}
```

Returns#

Name	Value	Description
result	integer	Returns iceberg order id if order placed successfully.

####| SON Response

```
{"result":12345,"id":"1"}
```

SellicebergOrder#

Place a sell iceberg order. This method will return an iceberg order id.

Parameters#

Name	Туре	Required	Description
price	number	YES	The price in quote currency to sell 1 base currency. Max 2 decimals BTC/CNY and LTC/CNY markets. 3 decimals for LTC/BTC market. Ma iceberg order is executed by setting price to 'null'.
amount	number	YES	The total amount of LTC/BTC to sell. Supports 3 decimal places for ELTC.
disclosed_amount	number	YES	The disclosed amount of LTC/BTC to sell. Supports 3 decimal places and LTC.
variance	number	NO	Default to 0. Must be less than 1. When given, used as variance to the disclosed amount when the order is created.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"sellIcebergOrder","params":[500,100,5,0.2],"id":1}
## market order ##
{"method":"sellIcebergOrder","params":[null,100,5,0.2],"id":1}
```

Returns#



Name	Value	PRO DESCRIPTION ABOUT	NEWS (https://www.btcc.com/news)	33553467(
result	integer	Returns iceberg order id if order placed successfully.		

JSON Response#

```
{"result":12345,"id":"1"}
```

GetIcebergOrder#

Get an iceberg order, including the orders placed.

Parameters#

Name	Туре	Required	Description
id	number	YES	The iceberg order id.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCBTC]

JSON Request#

```
{"method":"getIcebergOrder","params":[123],"id":1}
```

Returns#

Name	Value	Description
result	object	iceberg_order

JSON Response#

```
"result":
 {"iceberg_order":
{"id":1,
"type":"bid",
"price":"40.00",
"market":"BTCCNY",
"amount":"12.00000000",
"amount_original":"12.00000000",
"disclosed_amount":"5.00000000",
"variance":"0.10",
"date":1405412126,
"status":"open",
"order": [
{"id":3301,
"type":"bid"
"price":"40.00",
"currency":"CNY",
"amount":"4.67700000",
"amount_original":"4.67700000",
"date":1405412126,
"status":"open"}]}},
"id":"1"
```

GetIcebergOrders#

Get iceberg orders, including the orders placed inside each iceberg order.

Parameters#

Name	Туре	Required	Description
limit	integer	NO	Limit the number of iceberg orders, default value is 1000.
offset	integer	NO	Start index used for pagination, default value is 0.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"getIcebergOrders","params":[],"id":1}
## 50 iceberg orders from offset at 10 ##
{"method":"getIcebergOrders","params":[50, 10],"id":1}
```

Returns#

Name	Value	Description
result	object	iceberg_order



```
{
   "result":
                          PRODUCTS
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   {"iceberg_orders":
   {"id":2,
   "type":"ask",
   "price":"40.00"
   "market": "BTCCNY",
   "amount":"0.00000000",
   "amount_original":"5.00000000"
   "disclosed_amount":"5.00000000",
   "variance":"0.00",
   "date":1405412293,
   "status":"closed",
   "order":
   {"id":3304,
   "type":"ask"
   "price":"40.00",
   "currency":"CNY"
   "amount":"0.00000000",
   "amount_original":"5.00000000",
   "date":1405412293,
   "status":"closed"}]},
   {"id":1,
   "type":"bid"
   "price":"40.00"
   "market":"BTCCNY"
   "amount":"7.00000000",
   "amount_original":"12.00000000",
   "disclosed_amount":"5.00000000",
   "variance":"0.00",
   "date":1405412292,
   "status":"open",
   "order":
   {"id":3305,
   "type":"bid"
   "price":"40.00",
   "currency":"CNY"
   "amount":"5.00000000",
   "amount_original":"5.00000000",
   "date":1405412294,
   "status":"open"},
   {"id":3303,
   "type":"bid"
   "price":"40.00"
   "currency":"CNY"
   "amount":"0.00000000",
   "amount_original":"5.00000000",
   "date":1405412292,
   "status":"closed"}]}]},
   "id":"1"
```

CancellcebergOrder#

Cancels an open iceberg order. Fails if iceberg order is already cancelled or closed. The related c with the iceberg order will also be cancelled.

Parameters#

Name	Туре	Required	Description
id	number	YES	The iceberg order id to cancel.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

{"method":"cancelIcebergOrder","params":[1234],"id":1}

Returns#

Name	Value	Description
result	boolean	Returns true if cancellation successful.

JSON Response#

{"result":true,"id":"1"}

Stop Order API Methods#

A stop order allows you to put a "stop price" which will trigger an order to be placed when the st



is reached. It "price" parameter is not specified, the order placed after the stop price is reached to market order. This type of order is also known as "stop-loss order". If "price" is set, then it will be order. This type of order is also known as "stop-limit order". Note that at the point when the stop placed, it will not check or freeze your available balance. The amount is only checked and frozen point when the order is placed after the stop price is reached.

A stop trailing order allows for a stop order to have a dynamic stop price that can potentially chathe market price changes. A stop trailing order can be specified by setting the "stop trailing amo "stop trailing percentage", and leaving "stop price" as null. When stop trailing amount is specified stop price rises (in the case of sell) as the market price rises by the rising amount. (or drops in the buy). Similarly, if the stop trailing percentage is specified, the stop price rises (in the case of sell) market price rises to the trailing percentage below the market price. (or drops in the case of buy Exactly one of the following three is specified when a stop order is created: stop price, stop trailing amount, or stop trailing percentage.

BuyStopOrder#

Place a buy stop order. This method will return a stop order id.

Parameters#

Name	Туре	Required	Description
stop_price	number	NO	The price in quote currency to trigger the order creation. The limit order will be triggered immediately if the last price is more than or this stop price. Max 2 decimals for BTC/CNY and LTC/CNY markets decimals for LTC/BTC market. The stop price can only be specified amount or trailing percentage is not specified.
price	number	YES	The price in quote currency to buy 1 base currency for the order to created when the stop price is reached. Max 2 decimals for BTC/Ct LTC/CNY markets. 4 decimals for LTC/BTC market. Market order is by setting price to 'null'.
amount	number	YES	The total amount of LTC/BTC to buy for the order to be created wh stop price is reached. Supports 4 decimal places for BTC with a mit trading amount of 0.001, and 3 decimal places for LTC.
trailing_amount	number	NO	The stop trailing amount used to determine the stop price. The sto the trailing amount more than the lowest market price seen after t creation of the order. Can only be specified if stop price or trailing percentage is not specified.
trailing_percentage	number	NO	The stop trailing percentage used to determine the stop price. The price is the trailing percentage more than the lowest market price after the creation of the order. Can only be specified if stop price c percentage is not specified.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
## buy stop limit order ##
{"method":"buyStopOrder","params":[500,500.01,0.123],"id":1}
## buy stop market order ##
{"method":"buyStopOrder","params":[500,null,0.123],"id":1}
```

Returns#

Name	Value	Description
result	integer	Returns stop order id if order placed successfully.

JSON Response#

```
{"result":12345,"id":"1"}
```

SellStopOrder#

Place a sell stop order. This method will return an stop order id.

Parameters#

Name	Туре	Required	Description
stop_price	number	NO	The price in quote currency to trigger the order creation. The limit order will be triggered immediately if the last price is less than or ϵ this stop price. Max 2 decimals for BTC/CNY and LTC/CNY markets decimals for LTC/BTC market. The stop price can only be specified amount or trailing percentage is not specified.
price	number	YES	The price in quote currency to sell 1 base currency for the order to created when the stop price is reached. Max 2 decimals for BTC/Cl LTC/CNY markets. 4 decimals for LTC/BTC market. Market order is by setting price to 'null'.



amount	number F	PR ØÐS JCTS	The total amount of LTC/BTC to sell for the order to be created wh stጫወphice is reations.(Sttpps//tww/wdecimahphaews)for BTC ያለቴቴሪፌቶርፕሬ trading amount of 0.001, and 3 decimal places for LTC.
trailing_amount	number	NO	The stop trailing amount used to determine the stop price. The sto the trailing amount less than the highest market price seen after tl creation of the order. Can only be specified if stop price or trailing percentage is not specified.
trailing_percentage	number	NO	The stop trailing percentage used to determine the stop price. The price is the trailing percentage less than the highest market price s the creation of the order. Can only be specified if stop price or trai percentage is not specified.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
## sell stop limit order ##
{"method":"sellStopOrder","params":[500,499.99,0.123],"id":1}
## sell stop market order ##
{"method":"sellStopOrder","params":[500,null,0.123],"id":1}
```

Returns#

Name	Value	Description
result	integer	Returns stop order id if order placed successfully.

JSON Response#

```
{"result":12345,"id":"1"}
```

GetStopOrder#

Get a stop order.

Parameters#

Name	Туре	Required	Description
id	number	YES	The stop order id.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"getStopOrder","params":[123],"id":1}
## get a stop order on LTCCNY market ##
{"method":"getStopOrder","params":[123, "LTCCNY"],"id":1}
```

Returns#

Name	Value	Description
result	object	stop_order

JSON Response#

{ "result": {"stop_order": {"id":1, "type":"bid", "stop_price":"50.00", "trailing_amount":"10.00000000 "trailing_percentage":null, "price":"50.00", "market":"LTCCNY", "amount":"2.000000000", "date":1407489603, "status":"open", "order_id":null}}, "id":"1" }

GetStopOrders#

Get stop orders.

Parameters#

Name	Туре	Required	Description
status	string	NO	Status to filter on: [open closed cancelled error]
type	string	NO	Type to filter on: [ask bid]
stop_price	number	NO	Price to filter on. For bid stop orders, will return all stop orders less than or this stop price. For ask stop orders, will return all stop orders greater than or to this stop price.
limit	integer	NO	Limit the number of stop orders, default value is 1000.
offset	integer	NO	Start index used for pagination, default value is 0.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#



{"method":"getStopOrders","params":[],"id":1}

PRODUCTS ABOUT

Returns#

Name	Value	Description
recult	object[]	Object array stop order

NEWS (https://www.btcc.com/news)

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JSON Response#

```
"result":
{"stop_orders":
{"id":1,
"type":"bid",
"stop price":"50.00",
"trailing_amount":"10.00000000",
"trailing_percentage":null,
"price":"50.00",
"market":"LTCCNY",
"amount":"2.00000000",
"date":1407492143,
"status":"open",
"order_id":null},
{"id":2,
"type":"bid",
"stop_price":"44.00",
"trailing_amount":null,
"trailing_percentage":"0.10",
"price":"51.00",
"market":"LTCCNY",
"amount":"2.00000000",
"date":1407492144,
"status":"open"
"order_id":null}]},
"id":"1"
```

CancelStopOrder#

Cancels an open stop order. Fails if stop order is already cancelled or closed.

Parameters#

Name	Туре	Required	Description
id	number	YES	The stop order id to cancel.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]

JSON Request#

```
{"method":"cancelStopOrder","params":[123],"id":1}
## cancel a stop order on LTCCNY market ##
{"method":"cancelStopOrder","params":[123, "LTCCNY"],"id":1}
```

Returns#

Name	Value	Description
result	boolean	Returns true if cancellation successful.

JSON Response#

```
{"result":true,"id":"1"}
```

getArchivedOrder#

Get an archived order. Archived order means the order which has been archived and the order wouldn't been changed.

Parameters#

Name	Туре	Required	Description
id	number	YES	The archived order id.
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC]
withdetail	boolean	NO	Return the trade details or not for this archive order. Can be set to true, fals Default to false, no details will be returned.

JSON Request#

(https://www.btcc.com)

Returns#	PRODUCTS	ABOUT	NEWS (https://www.btcc.com/news)	33553467(

Name	Value	Description
result	object	order

JSON Response#

```
"result": {
         "order": {
             "id": 2,
             "type": "ask",
             "price": "46.84",
             "currency": "CNY",
"amount": "0.00000000",
             "amount_original": "3.18400000",
             "date": 1406860694,
             "status": "closed",
             "details": [
                 {
                      "dateline": "1406860696",
                      "price": "46.84",
                      "amount": 3.184
             1
        }
    "id": "1"
}
```

getArchivedOrders#

Get archived orders.

Parameters#

Name	Туре	Required	Description
market	string	NO	Default to "BTCCNY". [BTCCNY LTCCNY LTCBTC ALL]
limit	integer	NO	Limit the number of transactions, default value is 200.
less_than_order_id	integer	NO	Start index used for, default value is 0 which means the max order
withdetail	boolean	NO	Return the trade details or not for orders. Can be set to true, false. to false, no details will be returned.

JSON Request#

```
{"method":"getArchivedOrders", "params": ["BTCCNY", 10, 11, 1], "id": 1}
```

Returns#

Name	Value	Description
result	object[]	order[]

```
"result": {
    "order": [
         {
              "id": 10,
              "type": "ask",
"price": "2.10",
              "avg_price": "431.69",
"currency": "CNY",
              "amount": "0.00000000",
              "amount_original": "1.00000000",
              "date": 1403077028,
              "status": "closed",
              "details": [
                   {
                        "dateline": "1403077029",
                        "price": "479.09",
                        "amount": 0.4
                   },
                        "dateline": "1403077029",
"price": "400.09",
                        "amount": 0.6
```

```
(https://www.btcc.com)
```

```
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                1
            }.
                           PRODUCTS
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                "id": 9,
                 "type": "ask",
                 "price": "2.10",
                 "avg_price": 0,
                 "currency": "CNY"
                 "amount": "0.00000000",
                 "amount_original": "1.00000000",
                 "date": 1403077028,
                "status": "closed"
        "date": 1452253924
    }.
    "id": "1"
}
```

FAO#

How to solve the 401 Unauthorized problem?#

- Make sure your system time is accurate when creating the 16 digit tonce.
- Make sure your Access Key is valid and active.
- Make sure you read the Param list and use each parameter properly.
- Make sure the HTTP Authorization Header is properly sent to the BTC China server.

How do I set parameters for getAccountInfo call?#

The input to generating the signature hash should be:

```
" tonce=<timestamp>
   &accesskey=<yourkey>
   &requestmethod=post
   &id=1
   &method=getAccountInfo
   &params="
```

The JSON Request should be:

```
{"method":"getAccountInfo","params":[],"id":1}
```

How do I set parameters for buyOrder2/sellOrder2 call?#

Limit order example:

The input to generating the signature hash should be:

```
" tonce=<timestamp>
&accesskey=<yourkey>
&requestmethod=post
&id=1
&method=buyOrder2
&params=0.0001,0.005,LTCBTC"
```

The JSON Request should be (note that you should only use up to 4 decimal for LTC/BTC for the price, and 2 decimal for the CNY price in the CNY markets):

LTC/BTC

```
{"method":"buy0rder2","params":[0.0001,0.005,"LTCBTC"],"id":1}
LTC/CNY
```

```
 \\ \{ "method":"buy0rder2", "params": [100.00, 0.001, "LTCCNY"], "id":1 \} \\
```

BTC/CNY

```
{"method":"buyOrder2","params":[4000.00,0.005,"BTCCNY"],"id":1}
```

Market order example:

The input to generating the signature hash should be:

```
" tonce=<timestamp>
&accesskey=<yourkey>
&requestmethod=post
&id=1
&method=buy0rder2
&params=,0.2,ltccny"
```

The JSON Request should be (notice the "null" in the price is not the same as 0, and the signature



as empty):

```
{"method":"buy0rder2","params PROPUCTS | null,0.2, ABOUT | null,0.
```

How to call getOrders?#

Using openonly as false example:

The input to generating the signature hash should be:

```
" tonce=<timestamp>
&accesskey=<yourkey>
&requestmethod=post
&id=1
&method=getOrders
&params=false,LTCCNY"
```

The ISON Request should be:

```
{"method":"getOrders","params":[false,"LTCCNY"],"id":1}
```

Using openonly as true example:

The input to generating the signature hash should be:

```
" tonce=<timestamp>
&accesskey=<yourkey>
&requestmethod=post
&id=1
&method=getOrders
&params=true,LTCCNY"
```

The JSON Request should be:

```
{"method":"getOrders","params":[true,"LTCCNY"],"id":1}
```

Note: The above example has market as "LTCCNY" for the Litecoin CNY market. For other marke use "BTCCNY" or "LTCBTC".

Why do I receive 403 Forbidden?

First, please check if you have created the key with the proper permission turned on. You can che via getAccountInfo with the key. If it does not have the proper permission, you can create a new add the proper permission.

Why do I get "Invalid Amount" or "Invalid Price"?

This happens if you specify a number too small for the market, and we round it down to 0. See t following for the amount of precision for each market:

- BTC/CNY: Use 2 decimal places for price, use 4 decimal places for amount.
- LTC/CNY: Use 2 decimal places for price, use 3 decimal places for amount.
- LTC/BTC: Use 4 decimal places for price, use 3 decimal places for amount.

How often does Market Data API update?

Every 5 seconds.

When using getMarketDepth2 call, How come I receive "503 Service Temporarily Unavailable"

We might be in the process of upgrading our servers. Please try again.

What are the limits for using BTCC API?

You can only call at most 5 requests per second per IP address.

Why do I get "httplib has no attribute HTTPSConnection" when using Python?

Please check if you are using "import httplib".

Where can I download the API code examples?

Please go to https://github.com/BTCChina/ (https://github.com/BTCChina/)

Is the price returned from getOrder my order price or filled price?

The price returned from getOrder is the price specified in buyOrder and sellOrder. Filled price careturned from getTransactions.



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