链上科技OpenApi

1、目录

2、通用规则

1）签名：
请求参数按照字典排序，然后以keyvalue的形式拼接成字符串string，最后sign=MD5(string+secretKey)。注意：如果请求参数中value为NULL的情况，则在拼接字符串时不计入签名字符串。

例如：

参数如下：

```
{
country = 86;
mobile = 15882133579;
password = 654321zz;
time = 1516007245;
}
```

拼接完成后：

string = country86mobile15882133579password654321zztime1516007278

sign=MD5(string+secretKey)

3、post请求参数采用表单格式提交数据

content-type:application/x-www-form-urlencoded

4、错误码

错误码	说明	备注
0	成功	
5	下单失败	
6	数量小于最小值	
7	数量大于最大值	
8	订单取消失败	
9	交易被冻结	
13	对不起，程序出现系统错误，请和网站管理员联系	
19	可用余额不足	
22	订单不存在	

23	缺少交易数量参数	
24	缺少交易价格参数	
100001	系统异常	
100002	系统升级	
100004	请求参数不合法	
100005	参数签名错误	
100007	非法IP	
110002	未知的货币代号	
110003	资金密码错误	
110004	提现被冻结	
110005	可用余额不足	
110020	用户名不存在	
110023	手机号已注册	
110024	邮箱已注册	
110025	帐户被后台管理员锁定	
110032	该用户无权限进行此操作	
110033	充值失败	
110034	提现失败	

/open/api/all_order-获取全部委托

/open/api/all_order（get）：已成交和已取消		
参数	填写类型	说明
symbol	必填	市场标记，btcusdt，详情看下面
pageSize	选填	页面大小
page	选填	页码
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	如下：	

```
{
    "count":10,
```

```
"orderList":[
    {
        "side":"BUY",
        "total_price":"0.10000000",
        "created_at":1510993841000,
        "avg_price":"0.10000000",
        "countCoin":"btc",
        "source":1,
        "type":1,
        "side_msg":"买入",
        "volume":"1.000",
        "price":"0.10000000",
        "source_msg":"WEB",
        "status_msg":"完全成交",
        "deal_volume":"1.00000000",
        "id":424,
        "remain_volume":"0.00000000",
        "baseCoin":"eth",
        "tradeList":[
            {
                "volume":"1.000",
                "feeCoin":"YLB",
                "price":"0.10000000",
                "fee":"0.16431104",
                "ctime":1510996571195,
                "deal_price":"0.10000000",
                "id":306,
                "type":"买入"
            }
        ],
        "status":2
    },
    {
        "side":"SELL",
        "total_price":"0.09900000",
        "created_at":1510993715000,
        "avg_price":"0.10000000",
        "countCoin":"btc",
        "source":1,
        "type":1,
        "side_msg":"卖出",
        "volume":"1.000",
        "price":"0.09900000",
        "source_msg":"WEB",
        "status_msg":"完全成交",
        "deal_volume":"1.00000000",
        "id":423,
        "remain_volume":"0.00000000",
        "baseCoin":"eth",
        "tradeList":[
            {
                "volume":"1.000",
                "feeCoin":"YLB",
                "price":"0.10000000",
                "fee":"0.16597075",
                "ctime":1510993723973,
                "deal_price":"0.10000000",
                "id":261,
                "type":"卖出"
```

```
        }
    ],
    "status":2
```

```
            }
        ]
    }
```

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
btc	btccny	-	btcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt
bcc	bcccny	bccbtc	bccusdt
etc	etccny	etcbtc	etcusdt
usdt	usdtcny	-	-

/open/api/all_trade-获取全部成交记录

/open/api/all_trade (get)：有成交的订单		
参数	填写类型	说明
symbol	必填	市场标记，btcusdt，详情看下面
pageSize	选填	页面大小
page	选填	页码
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	{"如下	

```
{
    "count":22,
    "resultList":[
        {
            "volume":"1.000",
            "side":"BUY",
            "feeCoin":"YLB",
            "price":"0.10000000",
            "fee":"0.16431104",
            "ctime":1510996571195,
            "deal_price":"0.10000000",
            "id":306,
            "type":"买入"
        },
        {
```

```
        "volume":"0.850",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.13966438",
        "ctime":1510996571190,
        "deal_price":"0.08500000",
        "id":305,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995560344,
        "deal_price":"0.00100000",
        "id":291,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995560338,
        "deal_price":"0.00100000",
        "id":290,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995560331,
        "deal_price":"0.00100000",
        "id":289,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995555323,
        "deal_price":"0.00100000",
        "id":288,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
```

```
        "fee":"0.00164311",
        "ctime":1510995555317,
        "deal_price":"0.00100000",
        "id":287,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995550309,
        "deal_price":"0.00100000",
        "id":286,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995550303,
        "deal_price":"0.00100000",
        "id":285,
        "type":"买入"
    },
    {
        "volume":"0.010",
        "side":"BUY",
        "feeCoin":"YLB",
        "price":"0.10000000",
        "fee":"0.00164311",
        "ctime":1510995545295,
        "deal_price":"0.00100000",
        "id":284,
        "type":"买入"
    }
    ]
}
```

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
btc	btccny	—	btcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt
bcc	bcccny	bccbtc	bccusdt
etc	etccny	etcbtc	etcusdt
usdt	usdtcny	—	—

/open/api/cancel_order-取消委托单

/open/api/cancel_order（post）		
参数	填写类型	说明
order_id	必填	订单ID
symbol	必填	市场标记，ethbtc，详情看下面
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	""	

虚拟币编号	xxx-cny（xxx101）	xxx-btc（xxx201）
btc	btccny	—
eth	ethcny	ethbtc
ltc	ltccny	ltcbtc
bcc	bcccny	bccbtc
etc	etccny	etcbtc

/open/api/common/symbols 查询系统支持的所有交易对及精度

/open/api/common/symbols(get)：		
参数	填写类型	说明
无		

返回		
字段	实例	解释
code	0	

msg	"suc"	code>0失败

data	{
	"code": "0",
	"msg": "suc",
	"data": [
	{
	"symbol": "ethbtc",
	"count_coin": "btc",
	"amount_precision": 3,
	"base_coin": "eth",
	"price_precision": 8
	},
	{
	"symbol": "ltcbtc",
	"count_coin": "btc",
	"amount_precision": 2,
	"base_coin": "ltc",
	"price_precision": 8
	},
	{
	"symbol": "bchbtc",
	"count_coin": "btc",
	"amount_precision": 3,
	"base_coin": "bch",
	"price_precision": 8
	},
	{
	"symbol": "etcbtc",
	"count_coin": "btc",
	"amount_precision": 2,
	"base_coin": "etc",
	"price_precision": 8
	},
	{
	"symbol": "ltceth",
	"count_coin": "eth",
	"amount_precision": 2,
	"base_coin": "ltc",
	"price_precision": 8
	},
	{
	"symbol": "etceth",
	"count_coin": "eth",
	"amount_precision": 2,
	"base_coin": "etc",
	"price_precision": 8
	}
	]
	}
		symbol 交易对
		
		base_coin 基础币种
		
		count_coin 计价货币
		
		price_precision 价格精度位数（0为个位）
		
		amount_precision 数量精度位数（0为个位）

/open/api/create_order-创建订单

/open/api/create_order（post）		
参数	填写类型	说明
side	必填	买卖方向BUY、SELL
type	必填	挂单类型，1:限价委托、2:市价委托
volume	必填	购买数量（多义，复用字段） type=1:表示买卖数量 type=2:买则表示总价格，卖表示总个数 买卖限制user/me-用户信息

price	选填	委托单价：type=2：不需要此参数
symbol	必填	市场标记，ethbtc
fee_is_user_exchange_coin	选填	0，当交易所有平台币时，此参数表示是否使用用平台币支付手续费，0否，1是
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	{"order_id":34343}	成功返回交易ID

虚拟币编号	xxx-cny（xxx101）	xxx-btc（xxx201）
btc	btccny	-
eth	ethcny	ethbtc
ltc	ltccny	ltcbtc
bcc	bcccny	bccbtc
etc	etccny	etcbtc

/open/api/get_records 获取K线数据

该接口不进行签名校验

/open/api/get_records(get)：获取K线数据		
参数	填写类型	说明
symbol	必填	市场标记，bchbtc，详情看下面
period	必填	单位为分钟，比喻1分钟则为1，一天则为1440

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
bch	bcccny	bchbtc	bchusdt
btc	btccny	-	btcusdt
etc	etccny	etcbtc	etcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	如下：	

```
[
    [
        1514445780,    //时间戳
        1.12,          //开盘价
        1.12,          //最高
        1.12,          //最低
        1.12,          //收盘价
        0              //成交量
    ],
    [
        1514445840,
        1.12,
        1.12,
        1.12,
        1.12,
        0
    ],
    [
        1514445900,
        1.12,
        1.12,
        1.12,
        0
    ]
]
```

/open/api/get_ticker 获取当前行情

该接口不进行签名校验

/open/api/get_ticker （get）：获取当前行情		
参数	填写类型	说明
symbol	必填	市场标记，btcusdt，详情看下面

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	如下：	

```
{
    "high": 1,//最高值
    "vol": 10232.26315789,//交易量
    "last": 173.60263169,//最新成交价
    "low": 0.01,//最低值
    "buy": "0.01000000",//买一价
"sell": "1.12345680",//卖一价
    "time": 1514448473626
  }
```

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
bcc	bcccny	bccbtc	bccusdt
btc	btccny	-	btcusdt
etc	etccny	etcbtc	etcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt

/open/api/get_trades 获取行情成交记录

该接口不进行签名校验

/open/api/get_trades（get）：获取行情成交记录		
参数	填写类型	说明
symbol	必填	市场标记，bchbtc，详情看下面

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	如下：	

```
[
    {
        "amount": 0.55,//成交量
        "price": 0.18519949,//成交价
        "id": 447121,
        "type": "buy"//买卖type，买为buy，买sell
    },
    {
        "amount": 16.45,
        "price": 0.18335468,
        "id": 447120,
        "type": "buy"
    },
    {
        "amount": 2,
        "price": 0.18335468,
        "id": 447119,
        "type": "buy"
    },
    {
        "amount": 2.92,
        "price": 0.183324003,
        "id": 447118,
        "type": "sell"
    }
]
```

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
bch	bcccny	bchbtc	bchusdt
btc	btccny	-	btcusdt
etc	etccny	etcbtc	etcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt

/open/api/market_dept 查询买卖盘深度

改接口不进行签名校验

/open/api/market_dept (get):		
参数	填写类型	说明
symbol	必填	市场标记，ethbtc，详情看下面
type	必填	深度类型，step0，step1，step2（合并深度0-2）；step0时，精度最高

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	见下面代码：	

```
{
    "tick":{
        "asks":[//卖盘
            {22112.22,0.9332},
            {22112.21,0.2},
            {22112.21,0.2},
            {22112.21,0.2},
            {22112.21,0.2},
        ],
        "bids":[//买盘
            {22111.22,0.9332},
            {22111.21,0.2},
            {22112.21,0.2},
            {22112.21,0.2},
            {22112.21,0.2},
        ]
    }
}
```

/open/api/market-获取各个币对的最新成交价

/open/api/market (get):		
参数	填写类型	说明
api_key	必填	api_key
time	必填	时间戳

sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	{"btcusdt":15000,"ethusdt":800}	

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
btc	btccny	-	btcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt
bcc	bcccny	bccbtc	bccusdt
etc	etccny	etcbtc	etcusdt

/open/api/new_order-获取当前委托

/open/api/new_order (get)：包括未成交和正在成交的委托		
参数	填写类型	说明
symbol	必填	市场标记，btcusdt，详情看下面
pageSize	选填	页面大小
page	选填	页码
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	如下图	订单状态(status)说明： INIT(0,"初始订单，未成交未进入盘口"), NEW_(1,"新订单，未成交进入盘口"), FILLED(2,"完全成交"), PART_FILLED(3,"部分成交"), CANCELED(4,"已撤单"), PENDING_CANCEL(5,"待撤单"), EXPIRED(6,"异常订单");

```
{
    "count":10,
    "resultList":[
        {
            "side":"BUY",
```

```
        "total_price":"0.10000000",
        "created_at":1510993841000,
        "avg_price":"0.10000000",
        "countCoin":"btc",
        "source":1,
        "type":1,
        "side_msg":"买入",
        "volume":"1.000",
        "price":"0.10000000",
        "source_msg":"WEB",
        "status_msg":"完全成交",
        "deal_volume":"1.00000000",
        "id":424,
        "remain_volume":"0.00000000",
        "baseCoin":"eth",
        "tradeList":[
            {
                "volume":"1.000",
                "feeCoin":"YLB",
                "price":"0.10000000",
                "fee":"0.16431104",
                "ctime":1510996571195,
                "deal_price":"0.10000000",
                "id":306,
                "type":"买入"
            }
        ],
        "status":2
    },
    {
        "side":"SELL",
        "total_price":"0.09900000",
        "created_at":1510993715000,
        "avg_price":"0.10000000",
        "countCoin":"btc",
        "source":1,
        "type":1,
        "side_msg":"卖出",
        "volume":"1.000",
        "price":"0.09900000",
        "source_msg":"WEB",
        "status_msg":"完全成交",
        "deal_volume":"1.00000000",
        "id":423,
        "remain_volume":"0.00000000",
        "baseCoin":"eth",
        "tradeList":[
            {
                "volume":"1.000",
                "feeCoin":"YLB",
                "price":"0.10000000",
                "fee":"0.16597075",
                "ctime":1510993723973,
                "deal_price":"0.10000000",
                "id":261,
                "type":"卖出"
            }
        ],
        "status":2
```

```
            }
        ]
    }
```

虚拟币编号	xxx-cny	xxx-btc	xxx-usdt
btc	btccny	-	btcusdt
eth	ethcny	ethbtc	ethusdt
ltc	ltccny	ltcbtc	ltcusdt
bcc	bcccny	bccbtc	bccusdt
etc	etccny	etcbtc	etcusdt
usdt	usdtcny	-	-/web/new_order-获取当前委托

/open/api/order_info-获取订单详情

/open/api/order_info (get):		
参数	填写类型	说明
order_id	必填	订单ID
symbol	必填	市场标记，ethbtc, 详情看下面
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败
data	{ "order_info" :{},"trade_list":[]}	

```
{
 "order_info":{
  "id":343,
       "side":"sell",
       "side_msg":"卖出",
       "created_at":"09-22 12:22",
       "price":222.33,
       "volume":222.33,
       "deal_volume":222.33,
       "total_price":222.33,
   "fee":222.33,
       "age_price":222.33}
 }
 "trade_list":[
  {
   "id":343,
   "created_at":"09-22 12:22",
   "price":222.33,
   "volume":222.33,
   "deal_price":222.33,
   "deal_fee":222.33
  },
  {
   "id":345,
   "created_at":"09-22 12:22",
   "price":222.33,
   "volume":222.33,
   "deal_price":222.33,
   "deal_fee":222.33
  }
 ]
}
```

/open/api/user/account-资产余额

/open/api/user/account (get)		
参数	填写类型	说明
api_key	必填	api_key
time	必填	时间戳
sign	必填	签名

返回		
字段	实例	解释
code	0	
msg	"suc"	code>0失败

data	{
	"total_asset":432323.23,
	"coin_list":[
	{"coin":"btc", "normal":32323.233, "locked":32323.233, "btcValuatin":112.33},
	{"coin":"ltc", "normal":32323.233, "locked":32323.233, "btcValuatin":112.33},
	{"coin":"bch", "normal":32323.233, "locked":32323.233, "btcValuatin":112.33},
	]
	}
		total_asset:总资产
		normal:余额账户
		locked：冻结账户
		btcValuatin：BTC估值

	{ "total_asset":432323.23, "coin_list":[{"coin":"btc", "normal":32323.233, "locked":32323.233, "btcValuatin":112.33},	total_asset:总资产 normal:余额账户 btcValuatin：BTC估值