Rate limits

4 calls/minute

Obtain storage pledge information

item	describe
Protocol	Http Get/Post
Encoding format	UTF-8
URL	https://super.ultronscan.io/third/getRevenue?address=ux....
describe	Obtain storage pledge information

Request URL parameters:

```
address : "ux...",           //Reward Address
```

return JSON body:

```
{
    "result": {
        "address": "ux...",                      //Reward Address
        "stratio": 0.8,                          //Storage Factor
        "storages":[                             //Storage List
            {
                "address": "ux...",              //Storage node address
                "blocknumber": 1000,             //Pledge height
                "capacity": 10995116277800,      //Storage capacity (unit: B)
                "bandwidth": 1024,               //Upload bandwidth
                "bwratio": 1.5,                  //Bandwidth reward factor
                "pledgeStatus": 0,               //Pledge status 0: normal 1:
unnormal
                "vaildNumber": 1000,             //Storage the last verified
height
                "succNumber": 1000,              //Storage the height of the
last authentication success
                "pledgeAmount": 30000000000000,  //pledgeAmount
                "leases":[                           //leases list
                    {
                        "hash": "ux...",             //rent hash
                        "address": "ux...",          //rental address
                        "blocknumber": 2000,         //Rental pledge height
                        "leaseStatus": 1,            //leaseStatus 0: normal
1: unnormal
                        "capacity": 1100585369600,   //Storage capacity
(unit: B)
                        "price": 1000000000000000,   //rental price
                        "duration": 30,             //rental duration (unit:
day)
```

```
                        "vaildNumber": 1000,          //Lease Last Verified
     Altitude
                        "succNumber": 1000,           //Height of the last
     successful authentication of the lease
                        "pledgeAmount": 30000000000000, //pledgeAmount
                   }
               ]
           }
       ]
    },
    "message": "successful",
    "statusCode": 0
}
```

Description:

All amounts have 18 digits, such as 1000000000000000000, the actual value is 1UTG

Get daily reward data

item	describe
protocol	Http Get/Post
Encoding format	UTF-8
URL	https://super.ultronscan.io/third/getRewards?address=ux....&datetime=1651334400000
describe	Get daily reward data

Request URL parameters:

```
address : "ux...",          //Reward Address
datetime :  1651334400000,  //date time stamp
type:  ""/1/2,              //Reward type, optional 1: PoSR reward 2: PoTS 3:
POS delegation reward Empty: All rewards for the address
```

return JSON body:

```
{
    "result": {
        "address": "ux...",              //Reward Address
        "starttime": 1651334400000,      //Statistics start time
        "endtime": 1651420800000,        //Statistics end time
        "rewards":[                      //Reward list
            {
                "address": "ux...",          //Storage node address / POS
     node address
                "blocknumber": 3300,         //Lock height
                "rewardAmount": 1000000000000,  //Total amount of the locked
     rewards record (including the locked, the released and burnt amount in the locked
     position)
```

```
                "releaseAmount": 1234000000,      //released Amount
                "burntAmount": 0,                 //burnt Amount
                "lockPeriod": 259200,             //lockPeriod
                "releasePeriod": 1555200,         //releasePeriod
                "releaseInterval": 8640,          //releaseInterval
                "type":  1/2/3,      //Reward type, optional 1: PoSR reward 2:
PoTS 3: POS delegation reward
            }
        ]
    },
    "message": "successful",
    "statusCode": 0
}
```

Description:

The request parameter datetime is the date and time stamp (milliseconds), and returns the time stamp starttime and endtime of the statistical time range

For example, the time stamp of 2022-05-01 00:00:00 (UTC+8) is 1651334400000, and the returned statistical time is 2022-04-30 13:00:00 (1651294800000) - 2022-05-01 13:00:00 (1651381200000)

Get Total Revenue Data

item	describe
protocol	Http Get/Post
Encoding format	UTF-8
URL	https://super.ultronscan.io/third/getTotalRewards?address=ux....
describe	Get Total Revenue Data

Request URL parameters:

```
address : "ux...",       //reward address
type:  ""/1/2/3,         //Reward type, optional 1: PoSR reward 2: PoTS 3: POS
delegation reward Empty: All rewards for the address
```

return JSON body:

```
{
    "result": {
        "address": "ux...",                    //reward address
        "rewards":[                            //reward list
            {
                "address": "ux...",                 //Storage node address / POS
node address
                "rewardAmount": 100000000000000,    //Total revenue reward
amount (including burnt)
                "burntAmount": 0,                 //burntAmount
                "type":  1/2/3,      //Reward type, optional 1: PoSR reward 2:
PoTS 3: POS delegation reward
            }
```

```
        ]
    },
    "message": "successful",
    "statusCode": 0
}
```

Get lock release data

item	describe
protol	Http Get/Post
Encoding format	UTF-8
URL	https://super.ultronscan.io/third/getReleases?address=ux....
describe	Get lock release data

Request URL parameters:

```
address : "ux...",       //reward address
type:  ""/1/2,           //Reward type, optional 1: PoSR reward 2: PoTS 3: POS
delegation reward Empty: All rewards for the address
```

return JSON body:

```
{
    "result": {
        "address": "ux...",                 //reward address
        "releases":[                        //release list
            {
                "address": "ux...",             //Storage node address / POS
node address
                "releaseAmount": 1000000000000, //Total released amount
(including burnt)
                "burntAmount": 0,               //Total burnt Amount
                "type":  1/2/3,     //Reward type, optional 1: PoSR reward 2:
PoTS 3: POS delegation reward
            }
        ]
    },
    "message": "successful",
    "statusCode": 0
}
```

Unbundle reward address and storage node address

item	describe
Encoding format	UTF-8
rpc	https://rpc.ultronglow.io
describe	Unbundle reward address and storage node address

parameter format:

```
UTG:1:Unbind:Ple:1
Among the parameters, only the storage node address is a variable. Assemble
according to the specific storage node address. The unbinding operation can only
be performed on the reward address
```

Java instances:

```java
public void testUnBind() throws Exception {
    String
privatekey="a75267d9a92b26eb8802f89b55b7d23e5c49f9576023abd8749433bb1f34d8a3";//
Private key of reward address
    String from="UX6737b3c9C69eA389A7Ba14A027a3c393a79a7584";//reward address
    String to="UX6737b3c9C69eA389A7Ba14A027a3c393a79a7584";//reward address
    String dev="uxc3b6D21b5eAa047956206c314a2dDB2685805f98";//storage node
address
    String
data=Numeric.toHexString(("UTG:1:Unbind:"+dev+":1").getBytes(StandardCharsets.UT
F_8));
    sendTrace(privatekey,from,to,data,web3j);//sendTrace
}
```

Get absent

item	describe
protocol	Http Post JSON
Encoding format	UTF-8
URL	https://super.ultronscan.io/platform/utg/getPunished
describe	Get absent

Request URL parameters:

```
{
    "current": 1,        //Current page number
    "size": 10,          //Articles per page
    "address":"ux...",   //absentee address
    "blockNumber":100,   //absentee height
}
```

return JSON body:

```json
{
    "result": {
        "records": [
            {
                "address": "ux...",                     //absentee address
                "blockNumber": 68381,                    //absentee height
                "fractions": 30,                         //penalty points
                "timeStamp": "2022-06-17 09:14:23"  //time
            }
        ],
        "total": 13,     //total number of absences
        "size": 10,      //Articles per page
        "current": 1,    //Current page number
        "pages": 2       //total pages
    },
    "message": "successful",
    "statusCode": 0
}
```

Convert UTG to SRT

item	describe
protocol	Http Post JSON
Encoding format	UTF-8
URL	https://rpc.ultronglow.io
describe	Convert UTG to SRT

request transaction parameters:

```
Every conversion of SRT needs to initiate a transaction
The transaction data parameter is UTG:1:Exch:SRT receiving address: convert
quantity
```

e.g.
ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502 convert 10 SRT for
ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502

```
String
privatekey="64b87ff4dfe358dfbf54d9eeec538d8ea9e7e96b3d77cc48a7b441fced793be7";
String from="ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502";
String to="ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502";
BigInteger num=new BigInteger("10");//10 ↑SRT
num=num.multiply(new BigInteger("10").pow(18));
String srtdev="ux7a4539ed8a0b8b4583ead1e5a3f604e83419f502";
String
data=Numeric.toHexString(("UTG:1:Exch:"+srtdev+":"+num.toString(16)).getBytes(St
andardCharsets.UTF_8));
sendTrace(privatekey,from,to,data,null,web3j);
```

Get the list of POS nodes

item	describe
protocol	Http Get/Post
Encoding format	UTF-8
URL	https://super.ultronscan.io/third/getPosNodes
describe	Get the list of POS nodes, excluding exited nodes

return JSON body:

```
{
    "result": {
        "list":[{                          //pos node list
            "node_address": "ux...",        //pos node address
            "revenue_address": "ux...",     //reward address
            "manage_address": "ux...",      //admin address
            "node_type": 2,                 //Node type 1: Pre-candidate node 2:
Ultron node
            "pledge_amount": 16099000000000,//pledge amount
            "charge_rate": 100,             //rate value percentage value
            "penalty_points": 0,            //penalty points
            "active_height": 8400           //active height
        }]
    },
    "message": "successful",
    "statusCode": 0
}
```

Description:

All amounts have 18 digits, such as 1000000000000000000, the actual value is 1UTG

Get pos node delegation information

item	describe
protocol	Http Get/Post
Encoding format	UTF-8
URL	https://super.ultronscan.io/third/getPosNodePledge?address=ux...
describe	Get pos node delegation information

Request URL parameters:

```
address : "ux..."
```

return JSON body:

```json
{
    "result": {
        "node_address": "ux...",            //pos node address
        "revenue_address": "ux...",         //reward address
        "manage_address": "ux...",          //admin address
        "node_type": 2,                     //Node type 1: Pre-candidate node 2:
Ultron node
        "pledge_amount": 1600000000000000,  //pledge amount
        "charge_rate": 100,                 //rate value percentage value
        "penalty_points": 0,                //penalty points
        "active_height": 8400,              //active height
        "pledge_list": [{                   //pledge list
            "pledge_address": "ux...",      //Pledge Address
            "pledge_hash": "ux...",         //Pledge Hash
            "pledge_status": 1,             //Pledge Status 1-Staking 0-
Staking Exit
            "pledge_amount": 160000000000000,  //pledge amount
            "pledge_number": 17382,         //pledge height
            "unpledge_hash": null,          //unpledge hash
            "unpledge_number": null         //unpledge number
        }]
    },
    "message": "successful",
    "statusCode": 0
}
```

Description:

All amounts have 18 digits, such as 1000000000000000000, the actual value is 1UTG