

更新

1. 所有 `timestamp` 字段 + `UTC 2014-08-11 2:0:0` 的 `timestamp` 再转时间

基本信息

1. 8位小数
2. 小额4个区块确认到账，大额(100万或以上)8个确认到账
3. 社区网站 <https://newbi.io>
4. 区块浏览器 <https://explorer.newbi.io>

节点

```
http://dasdasdasd.buluotech.com/NB-2.4.1.zip
```

安装jre8

```
java -jar NB.jar
```

账户体系

使用以太坊账户模型，一个账户一个私钥

1 充值地址

```
getAccountId
```

```
http://localhost:8125/burst?requestType=getAccountId&secretPhrase=IWontTellYou
```

```
{
  "accountRS": "NEWBI-L6FM-89WK-VK8P-FCRBB",
  "publicKey": "57fb6f3a958e320bb49c4e81b4c2cf28b9f25d086c143b473beec228f79ff93c",
  "requestProcessingTime": 0,
  "account": "15323192282528158131"
}
```

私钥是用加密安全随机生成，建议512位转为HEX，安全保存。

充值地址为 `accountRS`，以 `NEWBI` 开头

2 账户余额

getBalance

http://localhost:8125/burst?requestType=getBalance&account=NEWBI-GBFG-HVQ4-8AMM-GPCWR

```
{
  "unconfirmedBalanceNQT": "100000000000",
  "guaranteedBalanceNQT": "100000000000",
  "effectiveBalanceNXT": "100000000000",
  "forgedBalanceNQT": "0",
  "balanceNQT": "100000000000",
  "requestProcessingTime": 0
}
```

区块扫描

1 节点状态

http://localhost:8125/burst?requestType=getBlockchainStatus

```
{
  "application": "NBW",
  "version": "v2.4.0",
  "time": 157377329,
  "lastBlock": "6354224030858168589",
  "cumulativeDifficulty": "678664019765646375",
  "numberOfBlocks": 13923,
  "lastBlockchainFeeder": "59.63.200.34",
  "lastBlockchainFeederHeight": 13922,
  "isScanning": false,
  "requestProcessingTime": 0
}
```

区块扫描

http://localhost:8125/burst?requestType=getBlock&height=100&includeTransactions=true

```
{
  "block": "8786188127319440909",
  "height": 100,
  "generator": "11268530021734493453",
  "generatorRS": "NEWBI-YDAF-D9Z6-S6DJ-BWGSS",
  "generatorPublicKey": "1315f520bd43a996a7063f258629610c9ff34691c95b306fedc69d110ae6e314",
}
```

```
"nonce": "17296907442288912136",
"scoopNum": 2607,
"timestamp": 154003949,
"numberOfTransactions": 1,
"totalAmountNQT": "50000000000",
"totalFeeNQT": "10000000",
"blockReward": "10000",
"payloadLength": 176,
"version": 3,
"baseTarget": "1583797240",
"previousBlock": "9510313010618040589",
"nextBlock": "1758717398949248525",
"payloadHash": "d06ca4a3668c599556a6f4cfb47d00fbb9a020a8c66094f3e220dfb0b2965ad0",
"generationSignature": "7e4ec78abe09f1e502c0478b366beb1067ee4e374a074744c5113f1816023
6ac",
"previousBlockHash": "01aa9c4b6bfb833f57e997c30db064171b2b06ecff7b6d739e8abd135d6ab7c
5",
"blockSignature": "46828a7213e27f43bb50a3867e759bde5c06eb13c3c89ecea3cdcd0086d60f93
d8734cb5bc3696a151ef24ab5c1defc2a65a2130c11eb0ded4e9db7bed05e4",
"transactions": [
  {
    "type": 0,
    "subtype": 0,
    "timestamp": 154003906,
    "deadline": 1440,
    "senderPublicKey": "0bff36dc8809e8e866120816d0d87480e940e7152ca5bc43627b6eeddf394
85d",
    "recipient": "18241418105306888205",
    "recipientRS": "NEWBI-6G2F-5UH5-KKLP-HBNBU",
    "amountNQT": "50000000000",
    "feeNQT": "10000000",
    "signature": "8686e75a5bd7e68501dcbdda660969fe9b38e92713168241e1fb4750701d620c7a8
552dc3a2ebf0ab86e5e3c091c62b4b90b628f25ae8bc4e45f3198ebedd425",
    "signatureHash": "d7094560c44b8d17bffbb83537a6f7b0363128dc7f75e500837ca6c39a4bf1f
1",
    "fullHash": "8c304471064dc3625df2f0fca2aed05cc9abbc1ceabc57514e07b4cd26e98b5c",
    "transaction": "14072911494147771405",
    "sender": "3217230975237595405",
    "senderRS": "NEWBI-RAAF-JUZQ-S3M2-48HBT",
    "height": 100,
    "version": 1,
    "ecBlockId": "13953844808148535565",
    "ecBlockHeight": 90,
    "block": "8786188127319440909",
    "confirmations": 13822,
    "blockTimestamp": 154003949
  }
],
"requestProcessingTime": 1
}
```

直接返回整个区块内所有交易

主要关注的字段

`recipientRS` 充值用户地址

`amountNQT` 充值数量

`confirmations` 确认数

转账

提现和资金集中

1 发送交易

```
http://localhost:8125/burst?requestType=sendMoney&secretPhrase=IWontTellYou
&recipient=NEWBI-GBFG-HVQ4-8AMM-GPCWR&amountNQT=100000000&feeNQT=100000000&deadline=24
```

```
{
  "signatureHash": "b6bb90bac0d529d9ebc6771089f389c976db2a67d76867f7c9d2e1b90e00358a"
,
  "unsignedTransactionBytes": "001092812d07180057fb6f3a958e320bb49c4e81b4c2cf28b9f25d086c143b473beec228f79ff93cae2527ec7e55f1eb00e1f5050000000000e1f505*",
  "transactionJSON": {
    "senderPublicKey": "57fb6f3a958e320bb49c4e81b4c2cf28b9f25d086c143b473beec228f79ff93c",
    "signature": "3b709a56a9a2308b2364cdb260cc8b08126b8ed13cfe891aa817c28760b0e90f108680db998938fd4747390a0ed9b3b3e25674b849e583dce011155f95ecaa3a",
    "feeNQT": "100000000",
    "type": 0,
    "fullHash": "808d5c32b12f4d4b963404c19523b6391ddf7a04a96ec4a495703aeead76c6ff",
    "version": 1,
    "ecBlockId": "16622227543717857480",
    "signatureHash": "b6bb90bac0d529d9ebc6771089f389c976db2a67d76867f7c9d2e1b90e00358a",
    "senderRS": "NEWBI-L6FM-89WK-VK8P-FCRBB",
    "subtype": 0,
    "amountNQT": "100000000",
    "sender": "15323192282528158131",
    "recipientRS": "NEWBI-GBFG-HVQ4-8AMM-GPCWR",
    "recipient": "17001464071916561838",
    "ecBlockHeight": 497841,
    "deadline": 24,
    "transaction": "5426045564151958912",
    "timestamp": 120422802,
    "height": 2147483647
  },
  "broadcasted": true,
  "requestProcessingTime": 4,
  "transactionBytes": "001092812d07180057fb6f3a958e320bb49c4e81b4c2cf28b9f25d086c143b473beec228f79ff93cae2527ec7e55f1eb00e1f5050000000000e1f505*",
  "fullHash": "808d5c32b12f4d4b963404c19523b6391ddf7a04a96ec4a495703aeead76c6ff",
  "transaction": "5426045564151958912"
}
```

2 交易状态

<http://localhost:8125/burst?requestType=getTransaction&transaction=3120851314369640207>

```
{
  "senderPublicKey": "a61325eec9e83d7cac55544b8eca8ea8034559bafb5834b8a5d3b6d4efb85f1
2",
  "signature": "dc2503584a48e30ac62d62848f58461e0e9ff55070008743c24f380c24a9ef05525c7
0b5d40962566f3f4de2018277ba7956eb09d0aec84219784de7f3b76f6a",
  "feeNQT": "735000",
  "requestProcessingTime": 0,
  "type": 1,
  "confirmations": 7,
  "fullHash": "0f37d045bc7d4f2bd85cb565a5c4e575464ac387b986f80fb8c31635cf03923e",
  "version": 1,
  "ecBlockId": "1212249281481197658",
  "signatureHash": "2bcbafeab7a0bae40337fe34adea84110b1f770a33841c95f3fe9e19dde41bae"
,
  "attachment": {
    "version.Message": 1,
    "messageIsText": true,
    "message": "This is a sendMessage API example"
  },
  "senderRS": "NEWBI-FRDJ-UPLH-MY9A-GUKQP",
  "subtype": 0,
  "amountNQT": "0",
  "sender": "16922903237994405232",
  "recipientRS": "NEWBI-L6FM-89WK-VK8P-FCRBB",
  "recipient": "15323192282528158131",
  "ecBlockHeight": 502787,
  "block": "2298247278137763160",
  "blockTimestamp": 121620850,
  "deadline": 24,
  "transaction": "3120851314369640207",
  "timestamp": 121620814,
  "height": 502797
}
```

信息与区块扫描时获得的交易一致