MINICASH DOCUMENTATION

Version Alpha

Socket ports

minicashd.py:

command line: 2223

server: 2222

minicashPS.py:

server: 9999

Currency details

 $1 \operatorname{cash} = 1 000 000 \operatorname{microcash} = 1000 \operatorname{millicash}$

Network protocol

Every packet contains a 'Type' key that is one of the:

HELL0

REQ LEDGER

RESP_LEDGER

REQ INTRO KEY

RESP_INTRO_KEY

REQ_INTRO_KEY_END

REQ_PAY

RESP_PAY

REQ_PAY_END

Also contains a 'Data' key.

Examples

```
HELLO:
{'Type':'HELL0',
 'Data':[
          {'Fingerprint': 'C4ED6700DFB2A1DF', 'Proof0fWork':2514606},
          {'Fingerprint':'A22F2D8422520966', 'Proof0fWork':722303}
        ]
}
REQ LEDGER:
{
  'Type': 'REQ_LEDGER',
  'Data': {}
}
RESP_LEDGER:
  'Type':'RESP_LEDGER',
  'Data':{
           'Ledger':{
                       'C4ED6700DFB2A1DF 2514606':45423343,
                      'A22F2D8422520966_3454529':45560343
                    },
           'Signatures':{
                          'C4ED6700DFB2A1DF': '----BEGIN PGP...',
                          'A22F2D8422520966':'----BEGIN PGP...'
                         }
         }
}
REQ INTRO KEY:
{
  'Type':'REQ_INTRO_KEY',
  'Data':{
            'Key':'C4ED6700DFB2A1DF 2514606',
           'Checksum': 'e811ba851763f04a1c54591bb748a424',
           'Sig':'----BEGIN PGP...',
         }
}
Explainations:
Key: key to add with the proof of work
Checksum: the checksum of the ledger after adding the key
```

Sig: signature of the checksum with the key

```
RESP INTRO KEY:
  'Type':'RESP INTRO KEY',
  'Data':{
           'Checksum': 'e811ba851763f04a1c54591bb748a424',
           'Signatures': {
             'C4ED6700DFB2A1DF': '----BEGIN PGP SIGNED MESSAGE----\nHa...',
             'A22F2D8422520966':'----BEGIN PGP SIGNED MESSAGE----\nHa...'
            }
         }
}
Explainations:
Checksum: The checksum of the request packet that was received before
Signatures: Fingerprints for keys and signatures of the checksum above
REQ INTRO KEY END
  'Type':'REQ_INTRO_KEY_END',
  'Data':{
           'Checksum': 'e811ba851763f04a1c54591bb748a424',
           'Signatures': {
             'C4ED6700DFB2A1DF': '-----BEGIN PGP SIGNED MESSAGE-----\nHa...',
             'A22F2D8422520966':'----BEGIN PGP SIGNED MESSAGE----\nHa...'
            }
          }
}
REQ_PAY:
  'Type':'REQ_PAY',
  'Data':{
           'Fromkey':'C4ED6700DFB2A1DF',
           'Tokey': 'A22F2D8422520966',
           'Amount':345449,
           'Checksum': 'e811ba851763f04a1c54591bb748a424',
           'Sig':'----BEGIN PGP...',
         }
}
```

```
RESP PAY:
{
  'Type':'RESP_PAY',
  'Data':{
           'Checksum': 'e811ba851763f04a1c54591bb748a424',
           'Signatures': {
             'C4ED6700DFB2A1DF': '----BEGIN PGP SIGNED MESSAGE----\nHa...',
             'A22F2D8422520966':'----BEGIN PGP SIGNED MESSAGE----\nHa...'
            }
         }
}
Explainations:
Checksum: The checksum of the request packet that was received before
Signatures: Fingerprints for keys and signatures of the checksum above
REQ PAY END
  'Type':'REQ_PAY END',
  'Data':{
           'Checksum': 'e811ba851763f04a1c54591bb748a424',
           'Signatures': {
             'C4ED6700DFB2A1DF': '----BEGIN PGP SIGNED MESSAGE----\nHa...',
             'A22F2D8422520966':'----BEGIN PGP SIGNED MESSAGE----\nHa...'
            }
          }
```

}