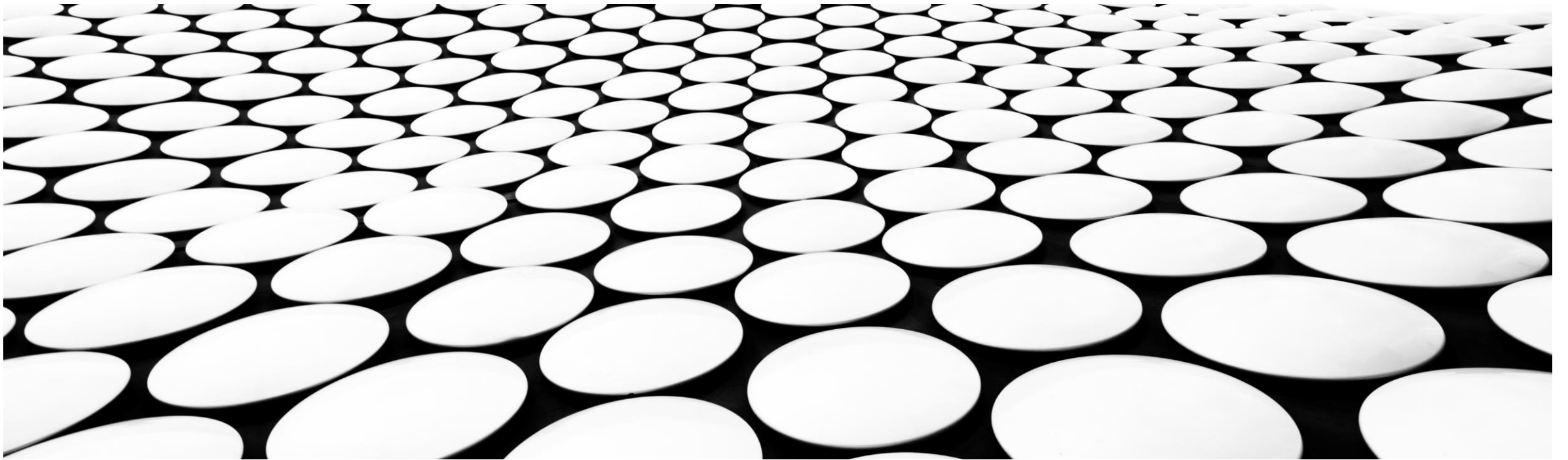# LITECOIN 0.15 버전으로 KIGACOIN 제작

KGACOIN 빌드 – LITECOIN 이름 변경

Litecoin 이름 변경 - Ubuntu/WSL

- find ./ -type f -readable -writable -exec sed -i "s/Litecoin/KIGAcoin/g" {} ₩;
- find ./ -type f -readable -writable -exec sed -i "s/LiteCoin/KigaCoin/g" {} ₩;
- find ./ -type f -readable -writable -exec sed -i "s/LTC/KGC/g" {} ₩;
- find ./ -type f -readable -writable -exec sed -i "s/litecoin/kigacoin/g" {} ₩;
- find ./ -type f -readable -writable -exec sed -i "s/LITECOIN/KIGACOIN/g" {} ₩;
- // find ./ -type f -readable -writable -exec sed -i "s/litecoind/kigacoind/g" {} ₩;

KGACOIN 빌드 – LITECOIN 이름 변경

Litecoin 이름 변경 – Mac

- find . -type f -print0 | xargs -0 sed –i "" 's/Litecoin/Kigacoin/g'

- find . -type f -print0 | xargs -0 sed –i "" 's/LiteCoin/KigaCoin/g'

- find . -type f -print0 | xargs -0 sed –i "" 's/LTC/KGC/g'

- find . -type f -print0 | xargs -0 sed –i "" 's/litecoin/kigacoin/g'

- find . -type f -print0 | xargs -0 sed –i "" 's/litecoind/kigacoind/g'

KGACOIN 빌드

Litecoin 이름 변경

- $ find . -type f -print0 | xargs -0 sed -i 's/litecoin/kigacoin/g'

- $ find . -type f -print0 | xargs -0 sed -i 's/Litecoin/Kigacoin/g'

- $ find . -type f -print0 | xargs -0 sed -i 's/LiteCoin/KigaCoin/g'

- $ find . -type f -print0 | xargs -0 sed -i 's/LITECOIN/KIGACOIN/g'

- $ find . -type f -print0 | xargs -0 sed -i 's/LTC/KGC/g'

- $ find . -type f -print0 | xargs -0 sed -i 's/라이트/키가/g'

- // $ find . –type f –print0 | xargs -0 sed –I ' s/라이트코인/키가코인/g'

KGACOIN 빌드

lite/photon 변경

- find ./ -type f -readable -writable -exec sed -i "s/lites/kgcs/g" {} ₩;
- find ./ -type f -readable -writable -exec sed -i "s/photons/kphotons/g" {} ₩;

KGACOIN 빌드

P2P 포트와 RPC 포트 변경

- P2P port: chainparams.cpp
- RPC port: chainparambase.cpp
    - $ find . -type f -print0 | xargs -0 sed -i 's/9333/9777/g'   // P2P port
    - $ find . -type f -print0 | xargs -0 sed -i 's/9332/9776/g'   // RPC port
    - $ find . -type f -print0 | xargs -0 sed -i 's/19335/19779/g'   // P2P port – test net
    - $ find . -type f -print0 | xargs -0 sed -i 's/19332/19776/g'   // RPC port – test net

KGACOIN 빌드

pch message "magic number"를 고유 한 값으로 변경

- chainparams.cpp – main net

    - pchMessageStart[0] = 0xfb;

    - pchMessageStart[1] = 0xc0;

    - pchMessageStart[2] = 0xb6;

    - pchMessageStart[3] = 0xdb;

- chainparams.cpp – test net

    - pchMessageStart[0] = 0xfd;

    - pchMessageStart[1] = 0xd2;

    - pchMessageStart[2] = 0xc8;

    - pchMessageStart[3] = 0xf1;

KGACOIN 빌드

지갑 주소접미부를 변경

- https://en.bitcoin.it/wiki/List_of_address_prefixes
- Chainparams.cpp

- base58Prefixes[PUBKEY_ADDRESS] = std::vector<unsigned char>(1,45);
  - // K로 시작
- base58Prefixes[SCRIPT_ADDRESS] = std::vector<unsigned char>(1,5);
- base58Prefixes[SCRIPT_ADDRESS2] = std::vector<unsigned char>(1,50);
- base58Prefixes[SECRET_KEY] =   std::vector<unsigned char>(1,176);

2022-02-23

KGACOIN 빌드

Genesis block 및 관련 merkle root 생성

- https://github.com/lhartikk/GenesisH0

- python2 genesis.py -a scrypt -z
  "KGA Blockchain Clss 1st Start At 21/Dec/2020"
  -t 1617604141 -n 2084524493

```
algorithm: scrypt
merkle hash: dde6170a1c08b6ff197038da978c742514a3c9b33299a25c48e8e606a6e5f7b0
pszTimestamp: KGA Blockchain Clss 1st Start At 21/Dec/2020
pubkey: 04678afdb0fe5548271967f1a67130b7105cd6a828e03909a67962e0ea1f61deb649f6bc3f4cef38c4f35504e51ec112de5c384df7ba0b8d
578a4c702b6bf11d5f
time: 1617604141
bits: 0x1e0ffff0
Searching for genesis hash..
genesis hash found!
nonce: 742745
genesis hash: 71fab66868fac24d39b7e4e745b682d997db4b593dcb1ca9273c1fd7c72324f7
```

KGACOIN 빌드

ICON 및 IMGAE 수정 – src/qt/res/icons

- About.png
- bitcoin_testnet.ico
- Bitcoin.icns
- Bitcoin.ico
- Bitcoin.png
- Litecoin_splash.png -> kgacoin_splash.png

KGACOIN 빌드

Man file rename – doc/man

- litecoin-cli.1
- litecoin-qt.1
- litecoin-tx.1
- litecoin-wallet.1
- litecoind.1

- kigacoin-cli.1
- kigacoin-qt.1
- kigacoin-tx.1
- kigacoin-wallet.1
- kigacoind.1