PLATINCOIN

Technical Whitepaper

BASIC FACTS

Codebase:	Litecoin 0.14.2
Hashing Algorithm:	CryptoNight
Block type:	Proof-of-Work (PoW)
Block frequency:	~90 sec
Block size:	4 Mb
Key prefixes:	3 bytes, P4/P5 (testnet), P8/P9 (mainnet)
Difficulty recalculation:	every 2016 blocks
Pre-mining:	600 mio PLC in first 100 blocks
Minting initialization:	blocks starting 100 to 200

MINING

Types of miner:	node, standalone, stratum (pool miner)
Supported platforms:	Debian, MacOS, Windows
Reward:	½ of total fees in block or 0.005, whatever is greater (spendable after 100 blocks)
Minting support:	coinbase transactions obligatory refill script address used for Minting transactions

MINTING

Special type of transaction that allows receiving *guaranteed* yearly interest (e.g. 10%) for deposited funds. Interest rate should be provisioned beforehand by Root Authority and can be withdrawn any time. Root Authority (10 keys) is specified in genesis block

SUPPORTING TOOLS

Middleware (indexing service + REST/JSON interface + BlockExplorer) implemented on Tarantool, high-performance in-memory DB+Application server

NODE RPC

Based on Litecoin RPC with PLC Extensions for Minting transaction creation (getplctransaction method)

WALLETS

Node wallet, desktop wallet based on Qt (MacOs, Linux, Windows), mobile wallets (iOS, Android) use middleware for transaction creation/posting and blockchain indexing only (private keys and wallets are stored locally