TECHNICAL STANDARD

Aletheia Protocol Standard 01: AletheiaChain Consensus & Settlement

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This draft standard specifies the consensus, settlement and verification rules of AletheiaChain, the ledger Aletheia is developing, now running as Mainnet Beta. Draft for engineering review; normative language follows RFC 2119.

1. Scope

APS-01 governs block production, finality, fee determination and the verification of registry records. It does not govern the issue of any currency; the AEY is not issued to the public.

2. Validator set

Consensus SHALL be operated by authorised validators across at least three physically separate facilities. The validator set and each validator public key SHALL be published in the public key directory.

A change to the validator set SHALL be published at least one epoch before it takes effect.

3. Slots and finality

Time is divided into slots of 500 milliseconds. A block proposed in a slot is final once it has been attested by more than two thirds of the validator weight; there is no probabilistic finality and no reorganisation of final blocks.

An epoch comprises 86,400 slots (12 hours). An integrity digest of the ledger is produced at each epoch boundary.

4. Fees

Settlement fees SHALL be fixed by a published schedule and SHALL NOT vary with network demand. Fee revenue is reported in each epoch digest.

5. Supply rules

Validators SHALL check the published supply rules before finalising any block that creates or retires units. If a rule fails, validators SHALL stop creating and retiring units until a signed remediation is

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published.

6. Registry verification

Registries (land, companies, identity credentials, Gazette entries) SHALL store records off-ledger and inscribe only the SHA-256 hash of each record together with a timestamp and the signing key.

Any person MAY verify a record by recomputing its hash and checking the inclusion proof against a finalised block. Personal data SHALL NOT be written to the ledger.

7. Security

Validator keys SHALL be held in hardware security modules. Continuous monitoring and a coordinated vulnerability disclosure programme SHALL cover the protocol.

Founding Team — Protocol Engineering
Public register entry APS-01

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