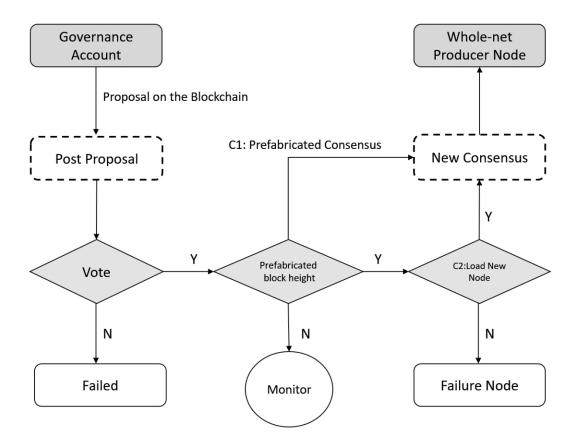
Dimension(EON) Project Planetary Landing (Phase

4)

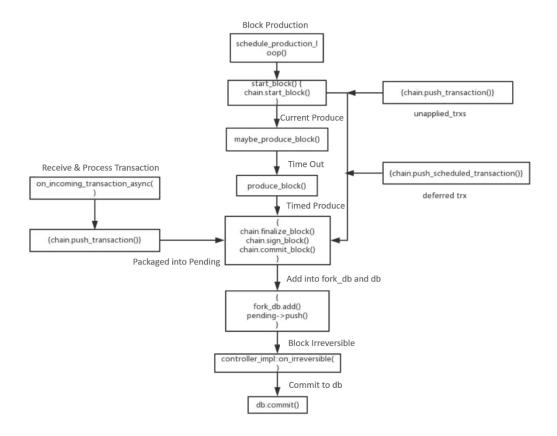


Vote mechanism

We introduce a proposal mechanism on ConsensusX, which is applied by the node to be joined or the node governance committee to publicly vote on the proposal via the verification node. The verification node may vote for "yes", "no", "strongly negative" or "abstain" in the specific time period. At least half of the voters must vote for "yes" and the proposal can be passed. If one-quarter of the verification nodes vote "strongly against" or one-third of the verification nodes vote "no", the proposal will be rejected. It also provides extensions to the approval process, supporting the corresponding contract call interface and command line interface.



Dimension will judge whether to switch the consensus by reading the data in the chain in start_block()



Interface Description

Different consensuses may require custom data structures at the head of the block, and new consensus needs to redefine this part of data.

```
block_id_type
                               block num = 0;
uint32 t
signed block header
                              header:
                               dpos_proposed_irreversible blocknum == 0;
                              dpos_irreversible_blocknum = 0;
uint32 t
                              bft_irreversible_blocknum = 0;
                              pending schedule lib num = 0; /// last irr block num
uint32 t
digest_type
                              pending_schedule_hash;
                             pending_schedule;
producer schedule type
producer schedule type
                              active schedule;
incremental merkle
                              blockroot merkle;
flat map<account_name,uint32_t>
                              producer to last implied irb;
public_key_type
                              block_signing_key;
vector<uint8 t>
                              confirm count;
vector<header_confirmation>
                              confirmations;
```

Under the mechanism of DPOS, the requirements for confirming a block in different algorithms are different. Only when the requirements of the consensus algorithm are met, the block can be agreed and enter an irreversible state. Dimension integrates this part. Each node uses different acknowledgment algorithms for the

block according to different consensus when it produce a block and receives a block for confirmation. The corresponding function is implemented in set_confirmed().

The node calls this function to change the status value of the block header when its produce or received block is validated. Different consensuses should redefine the function according to the requirements of the consensus itself, and call the relevant function according to the consensus type when the node produces or receive the block.