Summary

- Agree on a plan to set up a testnet using the Cosmos SDK v0.34.0 release, along with mainnet conditions, plus transfer enablement and increased block size, as a testing ground.
- If the testing is successful, upgrade the cosmoshub-1 chain to use the Cosmos SDK release v0.34.0, along with the necessary updates to the genesis file, at block 425000.

Overview

The Cosmos Network was launched with no possibility to transfer ATOMS, mainly for security purposes to ensure that the release is stable and facilitate any rollbacks should the need for them arise.

More than eleven days have passed since the launch of the mainnet network and no faults have appeared in the stability and security of the network. It is our belief that the network is ready to handle the enablement of ATOM transfers, a critical feature of any blockchain network. In order to achieve this, the maximum size of each block also needs to be updated to handle the associated increase in the number of transactions.

Proposal

We are proposing that:

- the community accepts the current release (v0.33.0) of the Cosmos SDK running on chain cosmoshub-1 as stable;
- the Tendermint development team (identified by keybase IDs DBB0B3EC64A4BDAA, 0979483D4F669CFF, 37AA68F6AA20B7A8) push a new release (v0.34.0) of the Cosmos SDK;
- a new testnet (gaia-14k) is specifically set up to run and test the new version with the appropriate changes in the genesis file to:
    - enable the transfer of ATOMS
    - increase the maximum size of each block to allow more transactions per block
    - adjust the blocks_per_year parameter as indicated in proposal 1 (https://ipfs.io/ipfs/QmXqEBr56xeUzFpgjsmDKMSit3iqnKaDEL4tabxPXoz9xc), if it is approved;
- the mainnet is upgraded to use the new release and amended parameters, if no critical issues are found on testnet.

The main repercussion of the proposal is that the fundamental feature of value transfer in a blockchain is fully enabled on the Cosmos network along with the upgrade to release v0.34.0 on the cosmoshub-1 chain. Furthermore, the maximum size of each block is increased to facilitate the transfer of value.

Possible blockers

We see three main possible reasons for the delay of the transfer enablement milestone:

- A critical issue is identified during the testing phase of the new release.
- Community agreement that the launch of Voyager is imperative before the transfers can be enabled.
- Community agreement that the current voting power distribution is not decentralised enough and that this should be remedied before the enablement of the transfers.

Proposed upgrade process

We propose that the transfer enablement is performed in the following way:

1. A new v0.34.0 release of the Cosmos SDK is pushed by the Tendermint team.
2. A new testnet (gaia-14k) running the new release is launched as follows:
    a) Issue genesis file with the following modifications to the cosmoshub-1 genesis file:
        - 'genesis_time' set to an appropriate date
        - 'accounts' adapted from gaia-13k
        - 'chain_id' set to gaia-14k
        - 'block_size'
            - 'max_bytes' set to 15000000
            - 'max_gas' set to 150000000
        - 'send_enabled' set to true
        - 'blocks_per_year' set to 4,855,015 – should proposal 1 be accepted by the community
    b) Collect 'gentxs' for inclusion in the gaia-14k genesis file.
    c) Issue final genesis file and launch new testnet.
3. If no critical issues, such as chain halts, are identified on gaia-14k, the mainnet is upgraded to the new version at block height 425000 (estimated to fall on the 16th April 2019 based on current average block time of 6.81s). This will involve:
    a) The issue of the new cosmoshub-1 genesis file with amended parameters.
    b) The switching off of cosmoshub-1 nodes on block 425000.
    c) The upgrade of the nodes to Cosmos SDK release v0.34.0, along with the necessary update of the genesis file.
    d) The relaunch of the upgraded nodes on the cosmoshub-1 chain.

Any bug fixes, as defined by the Tendermint development team, encountered during the operation of the gaia-14k testnet and committed to the master branch after the release of v0.34.0, will automatically be approved as per the endorsement of this proposal.

In the event of critical issues having been identified on testnet, the enablement process will be stopped and a new proposal for the enablement of the transfers will be developed, taking into consideration any repercussions of the identified issues.

Forum link

The following forum can be used to discuss this proposal - https://forum.cosmos.network/t/post-launch-roadmap-proposal-atom-transfers/1298