

v2.1.0 Upgrade Proposal

Build the New CertiK Binary

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Preliminary

This proposal is being submitted to upgrade the Shentu Chain to `v2.1.0` in response to a tx malleability bug addressed in the Cosmos SDK `v0.44` security release. This is **a simple binary replacing upgrade and the chain-id will not be bumped. All node operators should upgrade their software version from `v2.0.0` to `v2.1.0` at the block height `4421700`** (estimated *Wed Sep 8th, 2021 at 16:00 UTC*).

| | | | |
|---|------------------|------------|---|
|  UTC , Time Zone (UTC +0) | Wed, Sep 8, 2021 | 16:00 | ● |
|  New York, NY, USA EDT (UTC -4) | Wed, Sep 8, 2021 | 12:00 noon | ● |
|  Los Angeles, CA, USA PDT (UTC -7) | Wed, Sep 8, 2021 | 9:00 am | ● |
|  Moscow, Russia MSK (UTC +3) | Wed, Sep 8, 2021 | 7:00 pm | ● |
|  Seoul, South Korea KST (UTC +9) | Thu, Sep 9, 2021 | 1:00 am | ● |
|  Beijing, China CST (UTC +8) | Thu, Sep 9, 2021 | 12:00 midn | ● |

Context

In Cosmos SDK `v0.42.x`, which is what Shentu is currently on, if the client submitted a tx and thereafter received a failed response, there exists a non-negligible probability that said tx might've had still gone out to the network with a different hash that's unknown to the client. As the client wouldn't be able to query the tx on-chain and the perception to the user was that the first attempt had failed, the user would be at risk of being maliciously tricked into signing and submitting the same tx twice.

As a mitigation we have decided to plan out a coordinated network upgrade and bump up the chain to `v2.1.0` in which the necessary query paths would've been added so tx can be queried by signature or address+sequence. This way a tx response is only returned if it had already been successfully broadcast in the first place. Additionally in this release we will also have a fix for the staking module where unbondings and validator updates are not being properly processed in endblocker.

Impacted Stakeholders

Node Operators

- Validator nodes
- Full nodes

Service Providers

- Exchanges
- Wallets
- Explorers
- Staking Dashboards

Current & Target Runtime

Current Runtime

CertiK **v2.0.0**

Target Runtime

CertiK **v2.1.0**

Upgrade Procedure

1. Upgrade the binary from **v2.0.0** to **v2.1.0** at block height **4421700**
2. Restart the node

Upgrade Duration and Coordination

Node operators are encouraged to join the [validator chat](#) on Discord to ask questions, report upgrade status, raise technical issues, and/or to build social consensus if need be.

Resources

Release Cosmos SDK v0.44.0 Release Notes · cosmos/cosmos-sdk

v0.44 is a security release which contains a consensus breaking change. It doesn't bring any new feature and it's a logical continuation of v0.43. Consequences: v0.43 is discontinued; all chains should upgrade to v0.44.

<https://github.com/cosmos/cosmos-sdk/releases/tag/v0.44.0>

cosmos/cosmos-
sdk

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blockchains 🌟

253 Contributors 1k Used by 43 Discussions 3k Stars 1k Forks

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