

## The latest Signum Node version 3.3.0-alpha12 is released!

In preparation for the new use-case Smart Tokens we did some heavy usage tests on testnet with **nearly 1.2M account updates** in one block via the new distribution transaction type. That means **5000** transactions per second (TPS), recalling Bitcoin can handle less than 10 TPS and Ethereum less than 15 TPS.

As the transaction type works perfectly we needed to optimize the code of the node and the DB handling to be able to perform the updates plus keeping the DB consistent for the balances and not increasing the node requirements hardware.

Finally after 2 weeks of hard work we are proud to release this version which is able to handle the updates in a timely manner and keeps the DB consistent.

Due to the heavy load tests we know that all alpha11 testnet nodes right now are inconsistent for the balances on the DB independent of H2 or mariaDB backends.

### Sync from start needed for Testnet - only Testnet!


As this is a fact, testnet nodes need to sync from Genesis Block again to get all nodes aligned and consistent. For H2 this is simple as when you restart the node with the new release a new file will be created under /db instead /burst\_db. The new name for the file will be signum\_testnet.mv. For mariaDB you need to create a new database or make it empty.

On mainnet we will have a migration script, so no new sync from Genesis is needed.

### TL/DR for testnet

Just download the latest version and run it. It will sync from Genesis and after a few hours it will be fine. You can start right away with the node-default with H2 as all is set for the tesnet

```
334
335  #### DEVELOPMENT ####
336
337  ## (proceed with extreme caution beyond this point)
338
339  ## Run with a different network
340
341  # Testnet network
342  node.network = signum.net.TestnetNetwork
343
344  # Mock mining (offline and accepting any nonce as valid)
345  # node.network = signum.net.MockNetwork
346
347  ## Enter a version. Upon exit, print a list of peers having this version.
348
349  # DEV.dumpPeersVersion =
350
```



If you like to use mariaDB you have to set the DB attributes in the section for that. Please use a fresh and empty database in this case.

## **New properties file**

We optimized and renamed the properties files.

Please use the new files **node.properties**, **node-default.properties** and also update **logging-default.properties**.

## **Download for testnet :**

<https://github.com/signum-network/signum-node/releases/tag/v3.3.0-alpha12>

To the Zip:

<https://github.com/signum-network/signum-node/releases/download/v3.3.0-alpha12/signum-node-v3.3.0-alpha12.zip>

Any feedback as comments is welcome!