

# GORBYTE – GNODES – DEVELOPMENT TIMELINE

## Milestone Achieved

### AUTOMATIC MULTI SESSION LATCHING (AMSL)

Completed: June 2020

#### SUMMARY

This last June we reached our first milestone: Automatic Multi Session Latching (AMSL). AMSL enables any device running GNodes and connected to the internet to seek and dynamically establish an efficient logical connection with a limited number of random peers, to become a node of the GNodes network. The AMSL enables the creation and dynamic maintenance of the GNodes stochastic network without relying on user addressability information (IP addresses, names, web sites or peer IDs), and without a network owner or selected verifier group, thus eliminating the opportunities for malicious targeted attacks.

#### PROGRESS

The research, design and technical documents produced by Gorbyte in the past four years (IP) represent more than 50% of the total effort towards the successful launch of GNodes

## Upcoming Milestone

THE INCLUSION OF THE MARPLE FUNCTIONALITY IN THE GNODES PROTOTYPE.

Expected Completion: November 2020

#### SUMMARY

Reaching this milestone is a critical part of the project. It includes the most important design features that differentiates GNodes from the other two thousand crypto-networks and has never been attempted before: establishing a stochastic, fault tolerant public, unpermissioned crypto-network, where user devices are participating in the maintenance of the blockchain without miners or verifiers.

The software implemented with this milestone conforms to the Layer-1 of the blockchain standard architecture (As published by the NIST, see Draft NIST IR 8301). It also uses the NIST/FIPS 202 SHA-3 Hashing Standard. It implements a database for the blockchain and a graphic browser interface for the blockchain.

With this milestone we demonstrate that GNodes' unique and revolutionary distributed agreement protocol (MARPLE) and its blockchain consensus layer-1 are working, efficient, and scalable, with a potential throughput three orders of magnitude (about one thousand times) higher than current public crypto-networks. The software proves its ability to maintain a blockchain in a test network subject to changes and possible errors. This test network will continue to grow from a few nodes to about 1,000 nodes and will become the backbone of GNodes at launch. Thus, although we cannot classify this Prototype as a Minimum Viable Product, it is a building block of the real thing, with the actual protocols, structures and blockchain that will become GNodes at launch.

#### PROGRESS

In our estimate, this milestone of the GNodes Prototype represents about 20% of the complete design and development effort towards our objective: GNodes' launch.

## Next Milestones

A JOURNEY TO FULL FUNCTIONALITY OF THE GNODES NETWORK.

#### SUMMARY

*Our estimates of future milestones based on our current progress and funding are listed below. With our planned funding achieved we expect these timelines to be shortened.*

**Milestone 3: June 2021; Integration and network security testing:**

- \* Deployment of large PC testnet to test the more dynamic features of GNodes.
- \* Testing the code on tablet devices through the cell network

**Milestone 4: Nov 2021; Partnership and mobile device integration:**

- \* Partnership with mobile manufacturer. Integration of soft ware into mobile devices.
- \* User interface features.
- \* Secure chip set environment for encryption and key storage.
- \* Virus-safe loading procedure and background demon.

**Milestone 5: Launch of GNodes Version 1: Spring 2022; Usable Crypto-devices and currency accounts:**

- \* Secure ECC encryption, entity registration, BRUD device verification, usable cryptocurrency, individual accounts, support of (3rd party) tokens, support of (3rd party) contracts.
- \* Biometric unique vectors, tamper-proof features, automatic key management, automatic backup.
- \* Basic distributed currency exchange.

**Milestone 6: Six-months after launch; Unique, verifiable, tamper-proof user identification:**

- \* GApp distributed applications.
- \* Full fledged distributed currency exchange.

**Milestone 7: Launch of GNodes Version 2: Summer 2023; Exploiting the DOE, towards a distributed OS:**

- \* Updates and upgrades to version 1.
- \* Integration with one or more vertical applications using the GApp model over the DOE.
- \* Development of a distributed social media application over the DOE.