Phase 1 - Complete Cycle of File Uploading, Encryption, Sharding, Transfer to the Miner, Secure Storage and Retrieval in Decentralized Storage

Q1 2018 (DONE)

- Development of the user web interface for uploading and storing files
- Development of the alpha version of Miner's Linux application (v.1.0)
- Development and Implementation of the hashing (file encryption)
- Development and Implementation of the file sharding algorithm
- Transfer of encrypted file shards via SSH to miner's Linux machines
- Storage of file shard addresses (miner's addresses) on the Ethereum Blockchain
- Retrieval of the file shard addresses (miner's addresses) from the Ethereum Blockchain

Q1 2018 (UNDER DEVELOPMENT)

- Transfer of files fragments via Torrent Protocol
- Tests of grid storage scalability
- Development of beta version of Miner’s Linux application (v.1.1)
- IAG token minting
- Integration tests with partners storage DB
- Creation of Customer’s Pilot interface
Phase 2 - Solution's Architecture, Release of Miner's Linux App, Multi-platform and Alexandria Protocol architect and tests
<table>
<thead>
<tr>
<th>Q3 2018</th>
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<tbody>
<tr>
<td>Alexandria Protocol</td>
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<tr>
<td>development for</td>
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<tr>
<td>smart allocation of file</td>
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<td>sharding and</td>
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<td>processing tasks on the</td>
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<td>processing grid,</td>
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<td>Testing of the alpha version of Alexandria Protocol for performance optimization (predictive analytics of miner's performance)</td>
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<td>Planning and specification of the rogue node identification algorithm as part of the Alexandria Protocol</td>
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<td>Release of alpha version of Miner's application for Windows and IOT</td>
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</tbody>
</table>

**Phase 3 - Release of Miner's Windows/IOT App and Alexandria Protocol**

smart allocation of file sharding (storage and processing) and rogue node algorithm and tests
Q4 2018

Release of alpha version of Alexandria Protocol (v.1.0) with rogue node identification features and advanced AI algorithms

Development of the beta version of the Alexandria Protocol (v.1.1) with rogue node identification features

Development of beta version 1.2 of the miner’s application for Linux, Windows and IOS including testing and bug fixes suggestions from the community

Development of integrated Decentralized Applications (DApps)

Phase 4 - Release of alpha version of Alexandria Protocol, beta version of Miner's application for Linux/Windows/IOS and DAApps
Phase 5 - Release of beta versions of Alexandria Protocol and Miner's application for Linux/Windows/IOS and DApps
Q2 2019

Development of alpha version 1.1 of advanced AI capabilities, analyzing the performance of storage and processing grids, including Deep Learning

Embedding advanced grid performance optimization algorithms in the development of version 1.2 of the Alexandria Protocol

Planning and architecture of multiple Alexandria Protocol blockchain platforms supporting both Ethereum and DAG/Tangle

Development of version 1.3 of the Miner's application, including link to DAG/Tangle

Phase 6 - Development of Advanced AI with Deep Learning, Grid Performance Optimization with Alexandria Protocol, Architecture with Ethereum/Tangle and version 1.3 of Miner's Application with DAG/Tangle
Q3 2019

- Release of alpha version 1.1 of advanced AI capabilities, analyzing the performance of storage and processing grids, including Deep Learning
- Development of version 2.0 of the Alexandria Protocol supporting decentralized storage and processing on Ethereum and DAG/Tangle
- Release of version 1.3 of the Miner's application with DAG/Tangle

Phase 7 - Release of Alpha Version of Advanced AI with Deep Learning and version 1.3 of Miner's Application with Tangle, and version 2.0 of Alexandria Protocol with Ethereum/Tangle
Phase 8 - Release of version 2.0 of the Alexandria Protocol with Ethereum/Tangle and Tests and Development of version 2.0 of the Alexandria Protocol and Miner’s Application with Ethereum/Tangle