



## Introducing The Blockchain Storage Extension: Planetmint

**Berlin, Germany, July 18th 2022**, The Interplanetary Database Association (IPDB) e.V. announces the release of a DLT-based metadata storage solution, Planetmint. Like its predecessor, BigchainDB, Planetmint offers decentralisation, immutability, metadata storage per transaction and data verification for distributed ledger technology (DLT) solutions.

Planetmint allows developers, enterprises, federations and consortiums to deploy large-scale applications in a variety of use cases and industries. This includes functions such as intellectual property and identity management, token governance, machines as assets and the overall ability to have trustless system architectures.

Instead of being a stand-alone DLT or solution, it can be easily attached to current DLTs via roll-ups. Thereby extending the capabilities of given solutions.

### The Beginning

Seven years ago, BigchainDB was built. However, there were scalability issues that prevented larger customers from using it. Eventually, BigchainDB matured into an open-source protocol that negated these issues.

With the characteristics of decentralisation, immutability and the ability to own assets by holding private keys in place, the database became a live network ready for enterprises and individuals to use in production. Industries could not create their own prototypes as it required them to undertake massive governance exercises. So, instead, the IPDB Foundation was initiated with a mandate to govern the BigChainDB code in 2019.

With decentralised data markets on the rise, the next challenge for BigchainDB was to maintain and improve upon its existing network to host a new wave of industries looking for decentralised databases and storage solutions.

This led to the formation of Planetmint.

### The DLT Storage Extension

Planetmint allows the deployment of blockchain applications, proofs-of-concept and platforms. At its core, a DLT-based storage concept can be easily added to other DLT stacks via roll-ups, including the sharding capabilities to extend the overall storage network capacity beyond the capacity of the biggest nodes.

It guarantees the availability of notarised and verifiable data for DLT-based use cases and solutions. It has immutable data storage, built-in asset support and decentralised control.



## Features of Planetmint

Planetmint possesses several unique features that make it perfect to use for DLT solutions.

### **Storage Layer**

Tarantool data storage layer with flexible primary and secondary nodes and application server feature to deploy decentralised services for the DLT.

### **Smart Contracts & Policies**

Zenroom (zenroom.org) is based on smart contracting support extending crypto-primitives and can be used to deploy and enforce Smart Policies on the DLT or single assets.

### **Composability**

Its modular nature allows different data structures, validation methods, crypto primitives and more to be added and modified as per requirements.

### **Fee or Fee-Free**

Users have total control to configure Planetmint to enable transaction fees or not include it all.

### **Consensus and Governance**

Planetmint is Byzantine Fault Tolerant (BFT), which allows it to tolerate a third of failures, including hacks and malicious attacks. Similarly, governance is based on the BFT consensus mechanism.

### **Multi-Asset Transactions**

Planetmint supports multi-asset transaction types. Since there is no native currency, any asset, token or currency can be used to support multi-asset transactions.

### **Asset Attribution**

Planetmint allows assets to be further expanded with attributes such as carbon emissions and recyclability, allowing them to be monitored and notarised accordingly and use the token to incentivise changes in behaviour.

## Get Started with Planetmint

Planetmint is more than equipped to help organisations and industries with their blockchain database needs. Given the rising demand for blockchain applications today, Planetmint is a natural evolution of BigchainDB, ready to take the mantle to help enterprises undergo decentralisation and use new technologies. With the ability to issue smart contracts, Planetmint can help industries streamline their processes and adopt blockchain-based solutions.