



MANTLE

Mantle Blockchain

Solutions Overview

Pascal Leblanc

pascal.leblanc@mantleblockchain.com

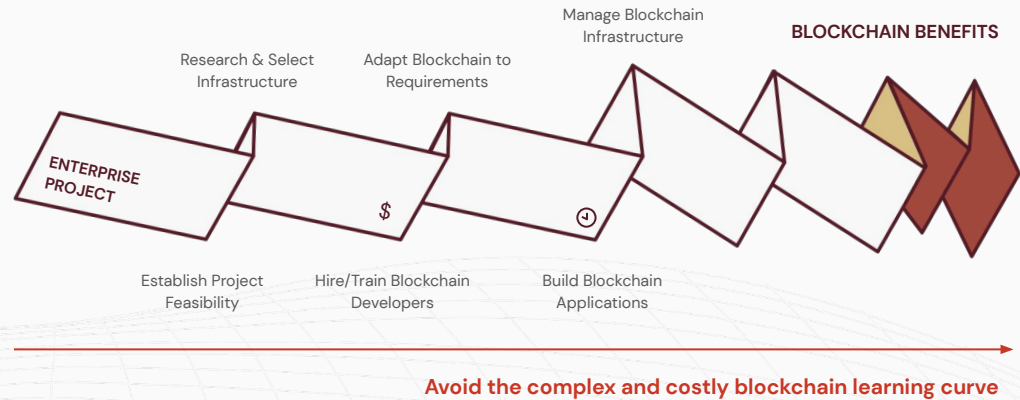


THE PROBLEM

Businesses waste time and money trying to build and integrate blockchains only to get to a proof-of-concept.

Blockchains are not easy to work with.

The technology & management consulting industry have struggled to help enterprises move passed the blockchain readiness and preparation phase.





Enterprise blockchain problems

Blockchain providers are **failing to deliver business benefits** to enterprises

Blockchain providers are **chasing the wrong use cases**



Too much focus on **low-level tech specs**



Blockchain brand loyalty leading to not delivering the best solutions



Chasing the killer use cases and leaving the low-hanging fruit behind



Lack of market research on blockchain-ready industries



By 2025, the business value added by blockchain will grow to slightly more than \$176 billion, then surge to **exceed \$3.1 trillion by 2030.**

— Gartner, Global Research Firm



Mantle delivers the benefits of blockchain, **without the complexity and cost of infrastructure change.**

PLUG & PLAY
BLOCKCHAIN CAPABILITIES



FUTURE PROOF
BLOCKCHAIN INFRASTRUCTURE



CROSS-CLOUD
NATIVE





Mantle customers benefit today from a **reduction of cybersecurity risk** by extending their existing best practices within their current enterprise softwares.



Zero Knowledge Insight Sharing



Data Privacy of Data at Rest



Age of Digital Complexity:

CONFIDENTIAL INFORMATION IS TOO OFTEN DUPLICATED WHEN ONLY THE INSIGHT SHOULD HAVE BEEN SHARED

Current processes create unnecessary data duplication exposing cyberisks such as :

Problems of Compliance & Data Sharing



Data breaches & leaks



Additional security burden



Impossible to track



Sharing too much information



Why the Insights Sharing Offering

HOW IT WORKS



Instead of sharing a complete file, only share a meaningless piece of data called a hash. This special hash is made in a way that allows for a provable insights to be created from it, we call it SmartHash.

This way, the original data can stay at rest in its safe haven while only the hash is moving, being copied and is at risk of being compromised.

The provable insights are validated against public records in a Blockchain to offer full transparency and reliability.

Key Benefits:



1). Adjust what is being shared



2) Audit every interactions



3) Only meaningless data is exposed



Age of Digital Complexity:

**ENCRYPTION IS ONLY ONE PART OF
THE ANSWER NOT THE FULL
SOLUTION**

Best practices today for securing data at rest are focused around encryption alone and this still leaves enterprises vulnerables to :

Problems of Encryption & Data at Rest



Ransomware attacks



Unlimited time to crack encryption



Permanent data loss



Physical hardware access



Why the Privacy Offering

HOW IT WORKS

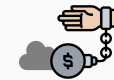


Scrambles your data across **multiple cloud providers**. No single cloud provider can access your data, regardless of their security.

Blockchain is used to guarantee that the data coming out of is exactly as intended and to immutably track the access

Provides a single point where the correct data exists as a whole, making it easier to enforce policies and log every interactions.

Key Benefits:



1). Not reliant a single cloud



2) Ransomware resistant



3) Immutable access records

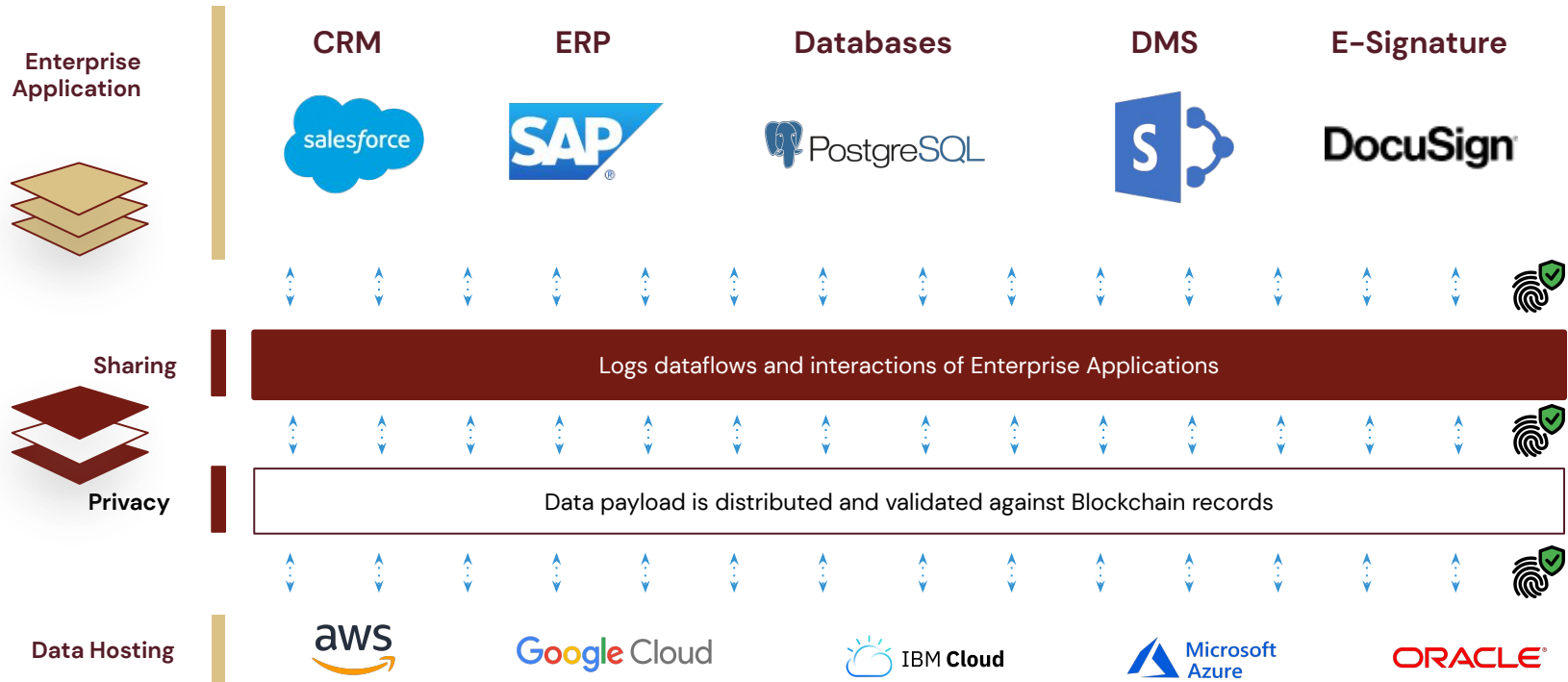


4) Geographically Controlled



Mantle's Data & Hash Flow

Mantle can sit beneath all enterprise softwares to ensure full data audit capabilities and privacy across your organization's digital systems.





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Mantle Solutions Overview

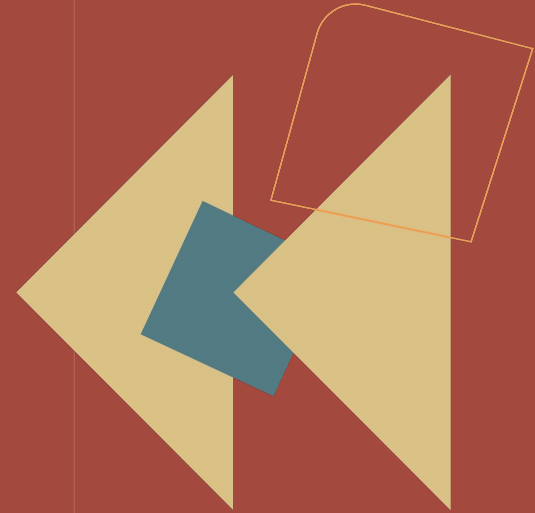
Thank you!

INTERESTED ?

PASCAL.LEBLANC@MANTLEBLOCKCHAIN.COM



Appendix

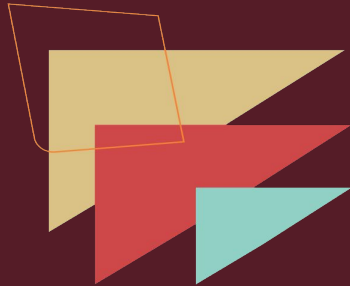




Mantle's Intellectual Property Edge

The toolset Mantle has built is a significant step forward in blockchain development, all ready for patent.

Blockchain Virtualization



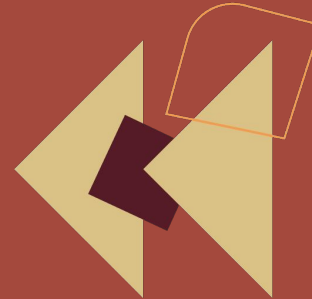
Allows for governance, scalability and interoperability of Blockchain networks

Smart Hashing



Breakthrough in cryptography to enhance privacy in file sharing

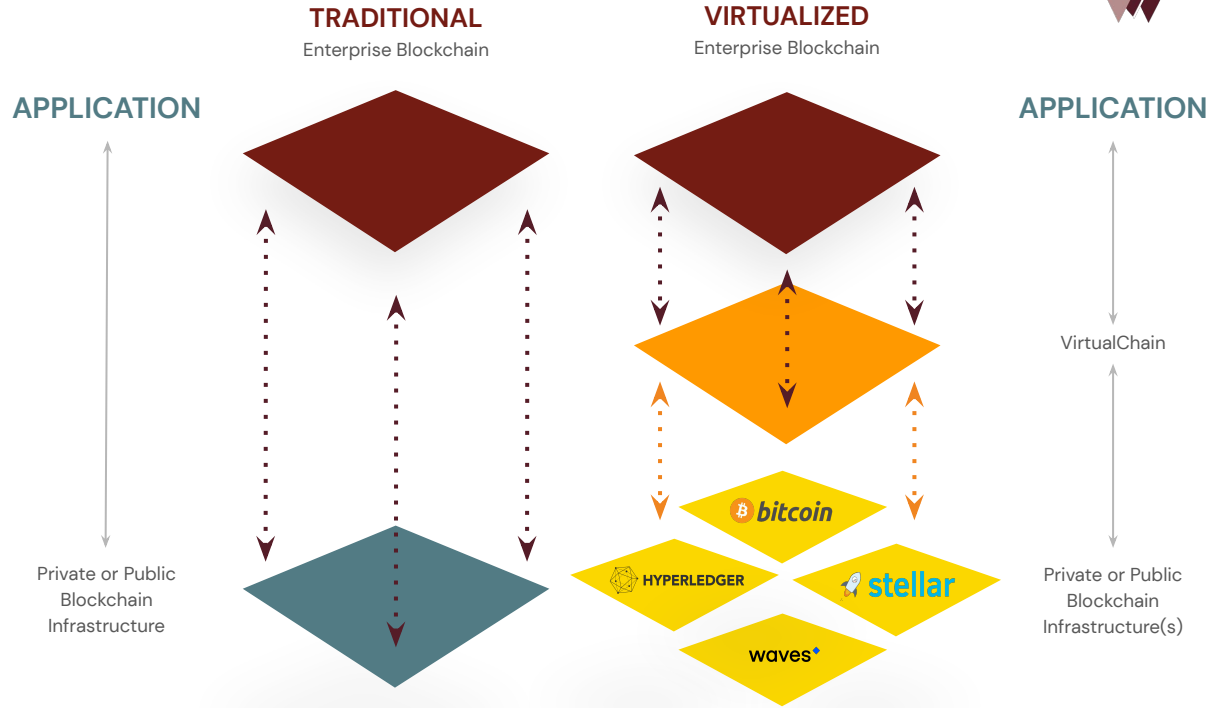
Secure Distributed Storage



New technology to enhance governance and privacy of file storage

Future-proof Architecture through VirtualChain

The VirtualChain abstracts and decouples infrastructures from the application logic eliminating the foundational risk of enterprise blockchain investments.

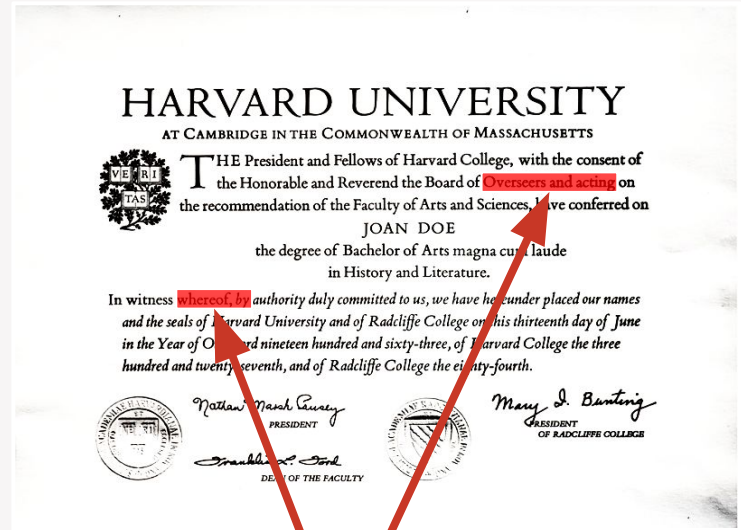


- Future-Proof
- Governance Layer
- Scalability (Multiplexing)
- Error Tolerance
- Blockchain Agnostic

Digital Fingerprints packed with insights

- Same benefits as a standard hash function, but also detects partial changes
- Can be context sensitive for optimal detection (xml, text, images, etc)

Digital File

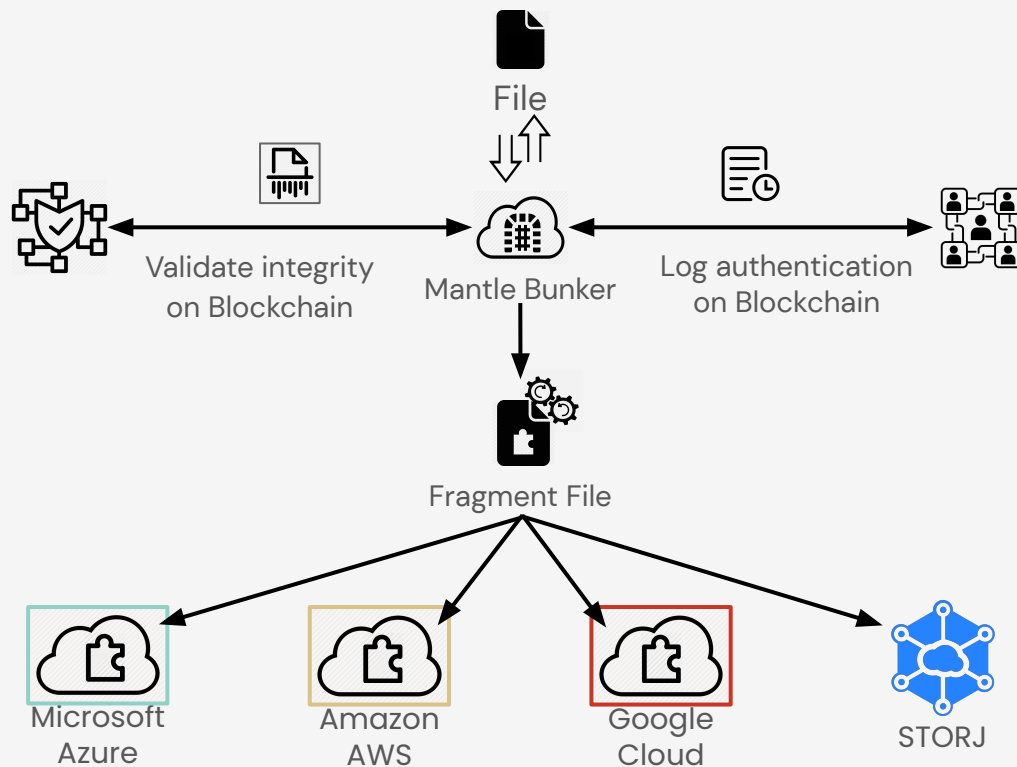


YqrciVd94yEIZbblIPDecCy4F4y8dlxTzArueVBzZCD41SIHFUyPEw8x1QmqwflAg
WAK2VbSoss6AWo6N6RhmiaqdKNUrSR7t7JW83SealsPGF5uS3eQe2bMcExpv
aPKFCZ6jsShcgndlqdyTFenCmMioHqZDnDw7wYnsN2xNZI4C9GKLoNaeTLuw4R
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mnDp6DZhwDazseJToXv29guCSBMKyTtWoKieXqlrYtFmbnTQ5UvGxrajKooICNL
mNySwX5JPwPZTZGkeckdpW2pDTHmKXyJVtyBnDD787D2nz9KRbDEXIQKRbz
db6yURBeJtxsyTue?aS

Resulting SmartHash



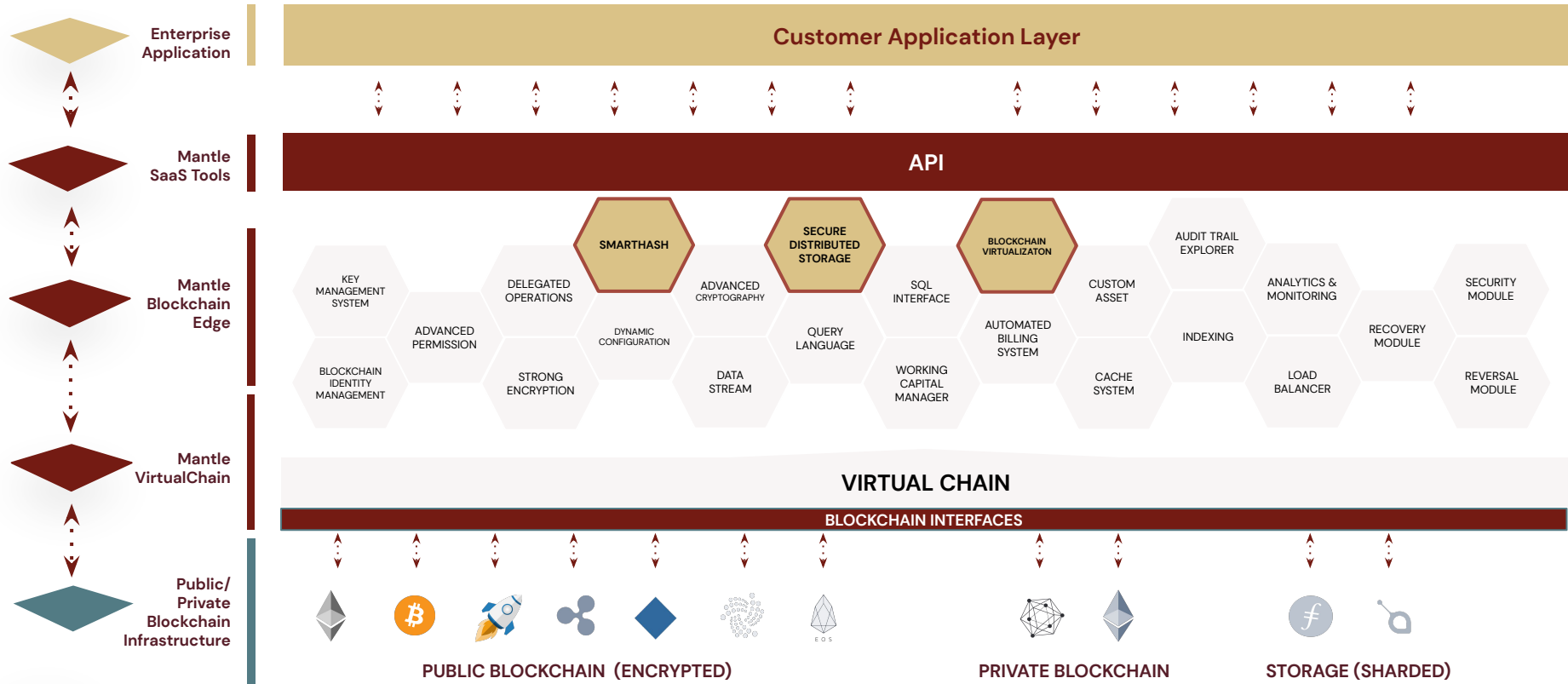
Privacy & Governance



Bunker Features Highlights

- Resilience & data integrity
- Privacy & Security
- Cost
- Increased resilience compared to encryption
- Built-in auditable and immutable access logging

Mantle Technology Stack





The right technology for the right requirements

| Capabilities | Traditional Database | Mantle Virtual Chain |
|---------------------------------------|----------------------|----------------------|
| Decision governance | Centralized | Centralized |
| Data governance | Centralized | Decentralized |
| Operations (CRUD) | ● ● ● | ● ● ○ |
| Data integrity (verification on read) | ○ ○ ○ | ● ● ● |
| Data traceability | ○ ○ ○ | ● ● ● |
| Data synchronization | ○ ○ ○ | ● ● ● |
| Robustness (attacks & errors) | ○ ○ ○ | ● ● ● |
| Confidentiality & Privacy | ● ● ● | ● ● ● |
| Performance (Read/Write) | ● ● ● | ● ○ ○ |
| Cost Effectiveness | ● ● ● | ● ○ ○ |

LEGEND ○ ○ ○ Low ● ● ● High