

VMware Blockchain Platform

Extensible, scalable, enterprise-grade blockchain platform

KEY BENEFITS

- Enterprise-grade reliability – Trust in reliable Day 2 operations, including enterprise-grade scalability, ease of deployment, monitoring and management, 24x7 production support, and a global footprint.
- Flexibility and extensibility – Deploy the platform on premises or in cloud and hybrid environments. Support private and permissioned networks designed to enable a range of smart contract languages on a single platform.
- Performance and scalability – Take advantage of the platform's performance, scalability, reliability, resilience and upgradability. Leverage governance controls at a global scale.
- Advanced blockchain attributes – Establish trust while maintaining privacy in multiparty networks. Achieve decentralized trust with fast consensus, distributed ledger technology, and virtualized compute engines for decentralized apps.

VMware Blockchain Platform™ provides a digital foundation enterprises can trust to build business networks and deploy business-critical decentralized applications.

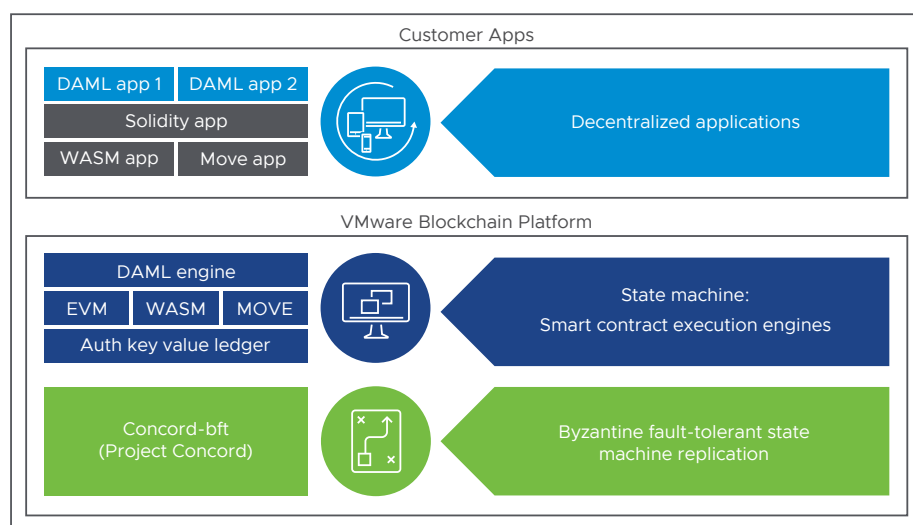


FIGURE 1: VMware Blockchain Platform is an extensible, scalable, enterprise-grade blockchain platform.

Blockchain enables multiparty workflows

Today's multiparty workflows are disjointed and highly complex to maintain, yielding delays, costs and hinderances to innovation. Workflow data is often siloed within enterprise boundaries, resulting in inefficient and costly steps to share, and the need to reconcile data across these boundaries. To break these boundaries, a trusted multiparty network is needed that will preserve integrity, ensure privacy, and provide enterprise-grade resilience.

Additionally, next-generation enterprises are moving beyond company boundaries to deliver value to their customers and partners by harnessing end-to-end, cross-industry workflows. This requires a single source of truth, for which blockchain is well suited.

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VMWARE BLOCKCHAIN PLATFORM	
FEATURE	BENEFITS
Flexible and extensible platform architecture	<ul style="list-style-type: none"> • Support distributed applications written in a range of smart contract languages • Deploy on premises or in the cloud, or use a cloud service • Create private and permissioned networks
Consistent, safe, fault-tolerant architecture	<ul style="list-style-type: none"> • Provides a consistent, cryptographically verifiable source of truth • Implements Byzantine fault-tolerant state machine replication
High performance and scale	<ul style="list-style-type: none"> • Solves the problems of scale and performance in blockchain solutions • Preserves liveness and safety
Multiparty access with privacy	<ul style="list-style-type: none"> • Client data filtering ensures parties only have access to data relevant to them in multiparty transactions • Sub-transaction privacy ensures parties only have visibility into appropriate parts of the transactions
Day 2 operations and management	<ul style="list-style-type: none"> • Enterprise-class management: deploy, manage, monitor • Fault tolerance, high availability • Reconfigurable and upgradeable with governance • 24x7 production support

FIGURE 2: VMware Blockchain Platform features and benefits.

Industry use cases

Financial market infrastructure

- Financial market infrastructure uses siloed systems designed decades ago.
- Reconciliation of data in siloed systems results in friction, delays, and costs to clearing and settlement.
- Blockchain can provide a single source of truth for multiparty transactions to be processed safely, securely, efficiently and privately.

Supply chain

- Supply chain is now a global network of suppliers, factories and customers.
- The network relies on siloed systems to process orders, deliver goods, and process payments.
- Blockchain provides a trusted platform for supply chain networks to transact on a single source of truth.

Healthcare

- Pharmaceutical supply chains span hundreds of stages, locations and entities with disparate systems of record.
- This results in vulnerabilities and inefficiencies in the supply chain.
- Blockchain offers a single source of truth to track drugs, vaccines, and medical kits to ensure patient safety.