BLOCKAPPS DELIVERS BLOCKCHAIN-AS-A-SERVICE WITH RED HAT

Rapidly deploy blockchain networks for your enterprise

PARTNER BRIEF

BENEFITS OF BLOCKAPPS STRATO

Full integration with Red Hat Enterprise Linux and Red Hat OpenShift Container Platform

Compatible with major public cloud providers

Ethereum smart contract features provide a flexible programming language and a wide base of development talent

Rapid deployment for cloud and hybrid infrastructure

Easily scale horizontally and vertically

Smart contact permissioning

BUILD BLOCKCHAIN APPLICATIONS FOR YOUR ENTERPRISE

Blockchains are distributed ledgers that maintain a continuously growing list of records called blocks. Each block contains a time stamp and a link to a previous block. That allows the data in each block to be confirmed by the network participants so all parties can agree on the shared dataset, yet no single party has complete authority or is vulnerable.

Blockchain technologies offer new capabilities and mechanisms to manage interactions and transactions, which will impact all industries, creating $3.1 trillion in business value by 2030.[1] Enterprises are already utilizing blockchain's immutable ledgers in finance, insurance, and supply chain management to improve visibility, data validation, and reconciliation processes among multiple parties.

Traditionally, businesses have faced the complex challenge of launching blockchain networks, testing blockchain applications, and building a secure enterprise-grade solution on their own. They had to integrate disparate software elements, such as integrated development environments (IDEs), compilers, wallets, and application programming interfaces (APIs), just to start building their app.

Red Hat and BlockApps are removing those barriers together by offering BlockApps STRATO on Red Hat® Enterprise Linux® and Red Hat OpenShift® Container Platform—a scalable, enterprise-ready blockchain platform that enables teams to rapidly deploy blockchain networks and seamlessly test applications. BlockApps also offers a full suite of services to ensure that your enterprise blockchain solution can scale with commercial support, including service-level agreements (SLAs), solution architectures, and developer training.

BlockApps STRATO utilizes the Ethereum protocol, which enables enterprises to quickly and cost-effectively launch blockchain networks. Using Red Hat Enterprise Linux and Red Hat OpenShift Container Platform, teams can seamlessly move from developing and testing to full-scale blockchain applications. With the BlockApps STRATO platform, teams can immediately start building.

BLOCK APPS STRATO

BlockApps STRATO utilizes a RESTful API that allows developers to easily build blockchain applications right out of the box. BlockApps STRATO offers flexible processing capabilities and consensus algorithms based on Ethereum—enabling enterprises to customize their blockchains to be completely private or a hybrid, depending on their business needs. Built on Red Hat Enterprise Linux, BlockApps STRATO delivers enterprise open source stability, giving organizations flexibility without compromising performance.

Deploying BlockApps STRATO on top of OpenShift Container Platform—an application platform that helps you develop, deploy, and manage new and existing applications across physical, virtual, or public cloud infrastructures—gives enterprises the flexibility to bridge traditional on-premise and

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1 Gartner, "Report highlight for market trends: How blockchain impacts different vertical industries," May 8, 2018. http://www.gartner.com/document/code/34784

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public cloud deployment configurations. Enterprise blockchains can be deployed across clouds to eliminate single points of failure, and developers can easily unify various microservices that may be running on different cloud providers—without time-consuming setup.

BlockApps STRATO also integrates with existing databases and makes it easy to for enterprises to query and view blockchain data at any moment, an essential feature for teams that expect traditional reporting tools and methods to work out of the box.

BLOCKCHAIN-AS-A-SERVICE WITH BLOCKAPPS

As one of the first Blockchain-as-a-Service (BaaS) companies, BlockApps enables blockchain solutions for both startups and Fortune 500 organizations.

BlockApps supports the Enterprise Ethereum Alliance (EEA) in its efforts to strengthen enterprise-grade extensions of Ethereum-based blockchain networks. The latest release of the EEA 1.0 specification gives the global Ethereum community a single, cross-platform standard that speeds up business transactions, builds greater trust in smart contracts, and creates a unifying business
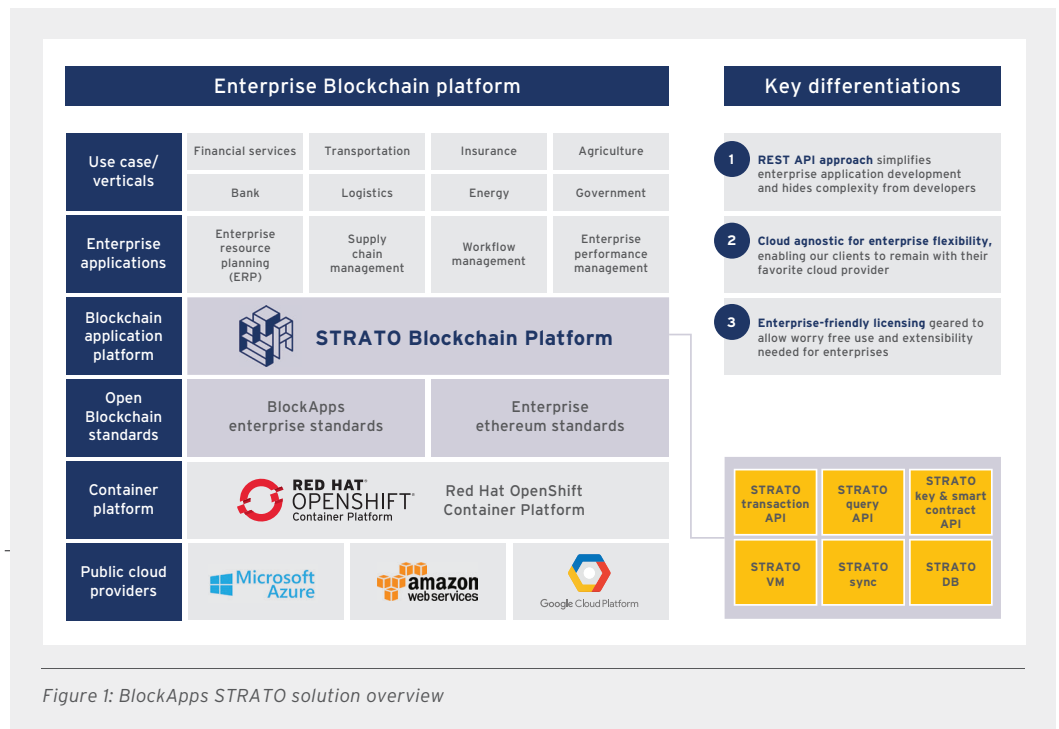

Figure 1: BlockApps STRATO solution overview

model.[2] By replacing ineffective multiprotocol approaches that relied on different, nonstandard approaches, enterprises in any sector can now develop new blockchain applications to engage customers.

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2 *Enterprise Ethereum Alliance, "EEA Enterprise Ethereum Client Specification 1.0." Accessed July 24, 2018.*
   https://entethalliance.org/resources/

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