

Objectives

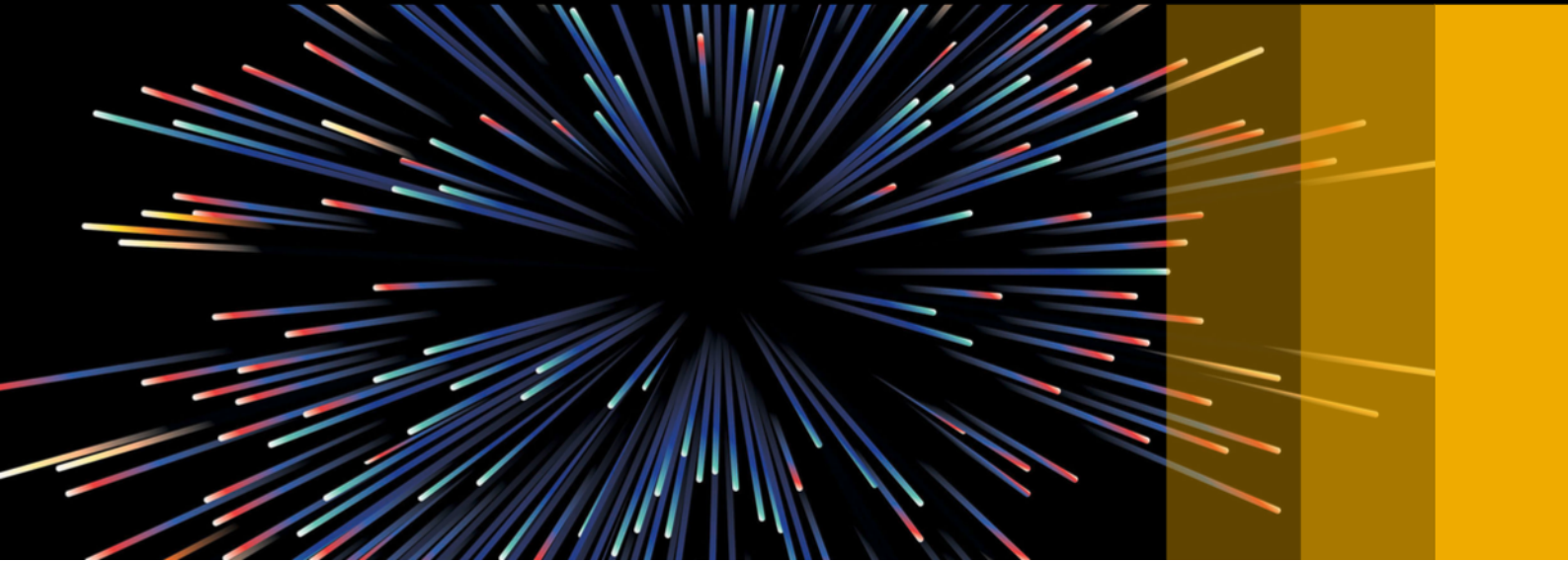
Solutions

Benefits

Quick Facts

SAP Solution Brief
SAP Leonardo Blockchain

Simplify and optimize complex multi-party processes with **blockchain technology**





Leverage blockchain capabilities to drive digital transformation

Internet of Things (IoT), machine learning, and other emerging technologies form a highly interconnected digital network of people, businesses, and things. How can we ensure that complex transactions in the digital economy are safe, secure, and simplified? SAP Leonardo Blockchain capabilities is the answer to your enterprise's growing need for a trustworthy single source of truth.

The simplest definition of blockchain is this: a reliable record of who owns what, and who transacts what. But there's much more to it than that.

Every business is based on transactions, and these transactions are often routed through third-party intermediaries, which makes processing time-consuming and expensive. Blockchain technology enables true data sharing, which dramatically speeds up multi-participant transactions and lowers costs, while ensuring all parties are protected.

People, businesses, machines, and algorithms are free to transact and communicate with one another in a frictionless way. This is the promise of blockchain.

Learn how SAP can help your business reduce intermediaries, speed up processes, heighten transparency, provide quick return on investment, automate processes – and drive digital transformation – with SAP Leonardo Blockchain.



Amplify trust while streamlining **complex transactions**

At SAP, we see blockchain as a promising way to simplify complex multi-party processes and create trust among participants. We're using our expertise in 25 industries and across all lines of business to actively explore blockchain technology, integrate it into the SAP landscape, and help you capitalize on its potential.

Thanks to SAP Leonardo Blockchain and the SAP Cloud Platform, you can redefine your business by tapping into SAP Cloud Platform Blockchain service, extending your applications, or building new ones.

SAP Cloud Platform Blockchain service lowers upfront costs and reduces risk for enterprises wishing to experiment with blockchain technology or begin integrating new models into their business processes.

As part of the SAP Leonardo systematic approach to digital innovation, SAP Leonardo Blockchain enables you to leverage state-of-the-art capabilities in your differentiating innovations. That includes integration with other next-generation technologies like IoT, machine learning, analytics, big data, and more.

Amplify trust while streamlining complex transactions

Radically shift the way business is done in diverse industries



"Blockchain is the first native digital medium

for value, just as the Internet was the first native digital medium for information." — *Harvard Business Review*



Radically shift the way business is done in **diverse industries**

Blockchain solutions can be applied to any enterprise or industry that uses digital transactions. Discover how we're already implementing SAP Leonardo Blockchain to simplify and enhance interactions in diverse scenarios, from government to manufacturing.

- **Public Sector** – Government employees spend too much time stating facts, confirming them, or sharing them. Blockchain can reduce inefficiencies in government by cutting down on manual information management. By introducing blockchain into document authentication processes, we can expedite the way facts are substantiated.

- **Transportation Management** – Blockchain technology from SAP introduces the use of secure, trusted, paperless bill of lading in transportation to digitally manage the handover of commodities between business partners. Ownership of an “e-bill of lading” can be changed while the vessel is on its way, allowing the business partner to legally pick up the container from the port of discharge.

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Amplify trust while streamlining complex transactions

Radically shift the way business is done in diverse industries



Speed up process execution, allowing for faster transactions that aren't limited by office hours.



Radically shift the way business is done in **diverse industries**

- **Asset Management** – In the case of mandatory audits performed by third-party service providers, blockchain technology can be implemented to track audits and ensure that obligations like regular maintenance are fulfilled.
- **Distributed Manufacturing** – SAP Leonardo Blockchain helps manufacturing enterprises record events for parts and material production, such as when a design is released or when production parameters are defined. Blockchain stores CAD designs, documents, and other assets, tracing complex supply chains as a substitute to using a central database. Certification, registration, and verification are all managed in a distributed way.

- **Trusted Digital Credentials** – The world is becoming more digital; however, digital copies of physical documents, such as government-issued IDs, professional credentials, and health records, can't be trusted. Manual verification processes for these items tend to be slow. SAP Leonardo Blockchain delivers trusted credentials, guaranteeing the authenticity of digital documents while enabling individuals to be in control of their credentials.

Amplify trust while streamlining complex transactions

Radically shift the way business is done in diverse industries



Simplify processes between peers in a highly complex network to securely transfer digital assets.



Explore the possibilities of blockchain **without investing upfront**

SAP Cloud Platform Blockchain service provides the easiest, lowest-risk gateway to experimenting with distributed ledger technology in the cloud. By eliminating the need for a large upfront capital investment, SAP Cloud Platform Blockchain service makes it easy to adopt enterprise blockchain for a range of benefits:

- **Fewer intermediaries** – Blockchain is a true peer-to-peer platform that will reduce the need for some types of third-party intermediaries
- **Faster processes** – Blockchain can speed up process execution in multi-party scenarios – and allow for faster transactions outside of regular business hours
- **Transparency** – Information in blockchains is viewable by all participants and cannot be altered. This reduces risk and fraud, and establishes trust
- **Return on investment** – Distributed ledgers provide quick ROI by helping businesses create leaner, more efficient, and more profitable processes
- **Security** – The distributed and encrypted nature of blockchain means it will be difficult to hack. This shows promise for business and IoT security
- **Automation** – Blockchain is programmable, which makes it possible to automatically trigger actions, events, and payments once conditions are met



Summary

SAP Leonardo Blockchain provides a way for people, businesses, machines, and algorithms to transact and communicate with one another in a frictionless way by enabling true data sharing, speeding up multi-party transactions and lowering costs, while ensuring all parties are protected. SAP is using its expertise across all industries to actively explore blockchain technology, integrate it into the SAP landscape, and help you capitalize on its potential.

Objectives

- Build blockchain extensions for existing applications across industries and lines of business
- Use open standards to create new consortia-based and private blockchain models and networks
- Explore blockchain use-cases to see how it can benefit your business
- Prototype, test, and build customized blockchain applications using smart contracts

Solutions

- SAP Cloud Platform Blockchain service provides an easy, low-risk gateway to distributed ledger technology in the cloud
- Integration with established SAP solutions creates synergies, especially in multi-party processes
- Allows integration with other next-generation technologies in SAP Leonardo

Benefits

- Reduce the need for some types of third-party intermediaries
- Allow for faster, more secure multi-party transactions that aren't limited by office hours
- Create leaner, more efficient, and more profitable processes
- Automatically trigger actions, events, and payments once conditions are met

Learn more

To find out more, call your SAP representative today or www.sap.com/blockchain.



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