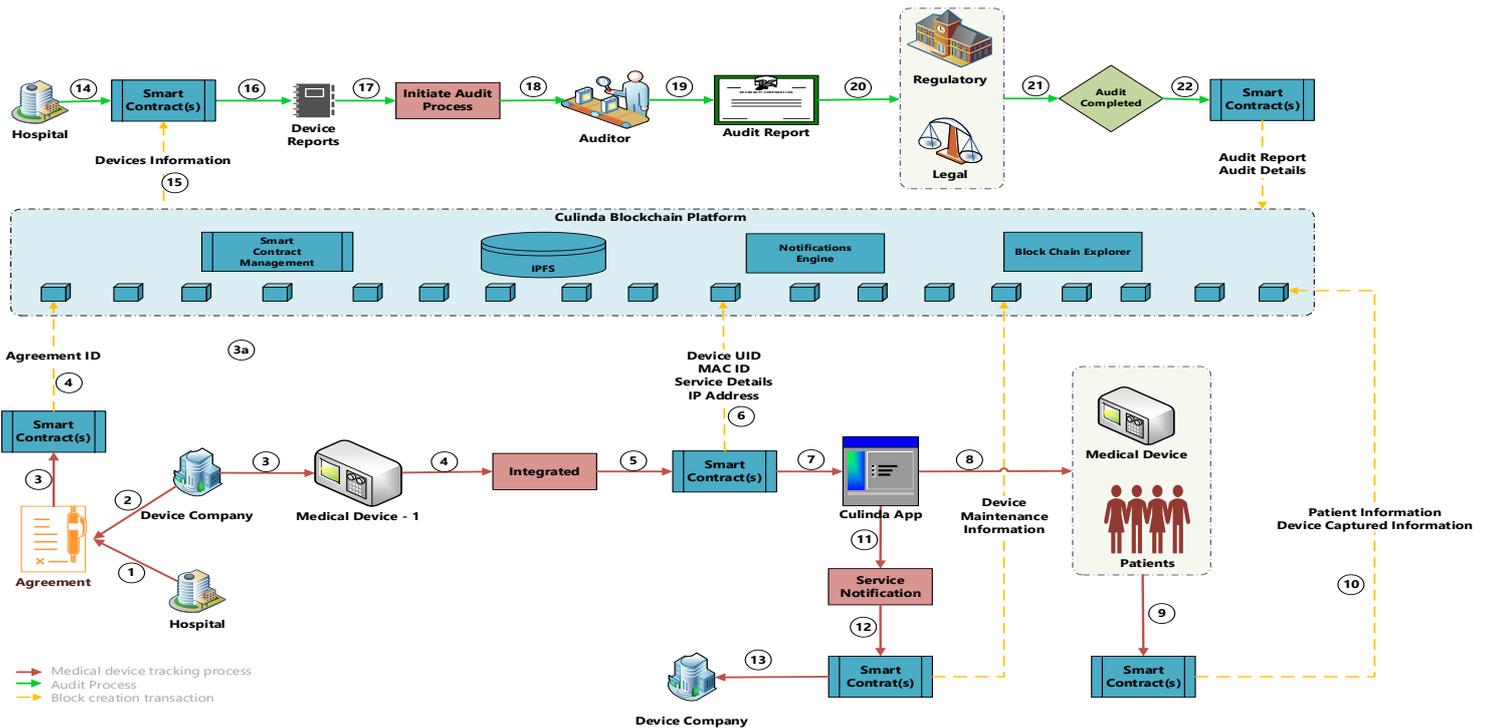


Medical Device Tracking On Blockchain



Why blockchain?

Helps secure multi-party collaboration by delivering open, scalable platforms and services that any organization can use to improve shared business processes. Culinda will empower and transform companies apply the cutting-edge blockchain technology which helps with greater Trust and Transparency for their customers

How it can help my business?

Culinda empowers with easy customized solutions to help your business with blockchain. Culinda automated tools, simplified interface makes the integration and deployment much easier. API integration will make it easier to integrate Culinda blockchain with your existing infrastructure, apps, and workflows.

Culinda:

Your Gateway to securing your medical devices with Blockchain

- Helps in seamless and frictionless Integration of Blockchain
- Connect to Blockchain Network seamlessly with one click deploy
- Invite your partners to be part of the Blockchain consortium

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Enterprise Ready:

- Scalable, Secure and Robust Platform for rapid Prototyping and easy Production Deployment
- Leading Medical devices platform empowered by Blockchain and helps Create Smart Contracts, Private or Permissioned or Consortium Blockchain Network

Start your journey with Culinda and demonstrate the value across the Medical device provenance.

Insights:

Get a deeper understanding of the technology and key consideration of integrating blockchain

Direction:

Accelerate the deployment of blockchain seamlessly without friction

Speed of Execution:

Integrate and deploy to your devices / application in an agile with greater speed

Why blockchain for medical devices:

- Blockchain ensures that data is cryptographically protected, immutable and private
- Ensures medical devices to share their operating data with those responsible for maintaining without violating compliance & privacy
- Enable medical devices companies/hospitals to comply with regulatory requirements
- Blockchain makes it easier to store the data and share in secure network which is immutable
- Blockchain tracks service records that may be required depending on the device and its purpose.
- A smart contract can be utilized to execute automatically store regulatory and compliance related data with timestamp

Helps Protect Patient Data:

Medical devices today collect, store and transmit patient-specific data. As currently data is centrally stored and transmitted to another central data store, there is a risk that the data may be hacked from the device or captured during transmission by those with malified intentions. Blockchain help to provide an alternative where the data is cryptographically protected, immutable and private that is not possible with traditional data storage and transmission processes.

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Medical Device Preventive Data:

Using blockchain applications it is possible for machines to share their operating data with those responsible for maintaining it without violating compliance and privacy issues. Sensitive information, such as patients who have been treated with the device, types and procedures, and the images or other information can be shared with the maintainers but can be used for auditing, reporting and compliance. Blockchain can help in keeping the service records that may be required depending on the device and its purpose.

Product supply chain

- Blockchain can be leveraged to keep permanent records of the development, design, production and distribution of medical devices as well as all of the parts from suppliers. Once the information is submitted to a blockchain it cannot be changed, resulting in permanent traceability for every device.
- Track and trace of individual medical devices from the supply chain to the finished product manufacturer through distribution to the patient. Blockchain technology helps to create a secure, highly visible record of the chain of custody. In addition to tracking finished products, the genealogy of approved or critical parts in the Bill of Materials (BOM) of a medical device may also be tracked where each approved part would have its own tamperproof record from supplier to manufacturer. The decentralized nature of a blockchain record could ensure that no single company or entity controlled the information. This would allow stakeholders, ranging from regulators to end users, to access the information and trust in its accuracy.
- Tracking the activities that mark a medical device's product lifecycle could also benefit from blockchain technology. For example, secure and trusted record keeping is critical to the Device History Record's (DHR) role in documenting the production history of a finished device. The many manufacturing, quality, and service records typically maintained in the DHR could be placed in a decentralized record not under the control of any specific company where it could not be altered after the fact without being detected.
- In the case of a device failure or non-conformance, the blockchain record could help quickly and accurately determine whether there were manufacturing issues or whether the device had been tampered with during its journey to the patient. The technology could track devices after their use to ensure they were disposed of properly or to see whether they were improperly returned to service, such as re-exporting them to another country.