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Blockchain & DLT in Med Tech Med Tech



Characteristics

New" (under development) technology

Continuously growing, shared ledger

Distributed: no central authority, peer-to-peer transactions

Consensus algorithm removes need of preexisting trugs between parties

Each block contains cryptographic references to all previous blocks

Immutable: block cannot be altered retroactively

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"Hackproof"

Hardware + Software + System

Crime prevention, detection, auditability

Diversity of cyber threats

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Future Future

- ISO/TC 307 Blockchain and distributed ledger technologies
- European Blockchain for Healthcare conference, German Federal Ministry of Health, May 2017
- Philips Healthcare lab specifically aimed at blockchain research
- IBM / FDA collaboration for secure, efficient, scalable exchange of data
- Insurance Industry Initiative B3i





Use Case

Connected medical device with embedded software:

Today

Identity manage*

Encryption and permanent storage of data

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Privacy by secure access to data tree of the secure access to data to the secure access to the



User-Centric

• "FDA must encourage the development of tools that can help people be more informed about their health."

"We must always lean in the direction of enhancing access to more information."

Statement from FDA Commissioner on advancing new digital health policies to encourage innovation, bring efficiency and modernization to regulation



A Future To Explore To

- Strengthen to Medical Devices industry
- Growing number of connected health devices / Internet of Things
- "Precision Treatment" through personalised health data
- por Pilectronic Medical Record: support the entire lifecycle of patient
 - Longitudinal Health Record: clinical summary, labs, treatments
 - Contradicting effects of multiple medications research
 - Recommendations can be made based on real-time data

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