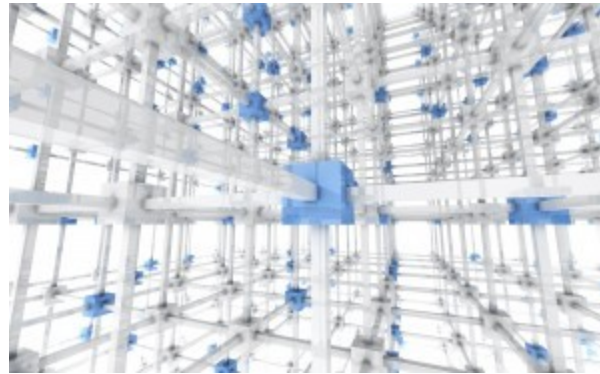


Интернет вещей и блокчейн: перспективы конвергенции

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Российский IoT-центр
www.internetofthings.ru

Москва, 28 марта 2015



IBM&Samsung

ADEPT

(Autonomous *Decentralized* Peer-to-Peer Telemetry):

-Bittorrent (file sharing)



IBM&Samsung

ADEPT

(Autonomous *Decentralized* Peer-to-Peer Telemetry):

- Bittorrent (file sharing)
- Ethereum (smart contract, blockchain)



IBM&Samsung

ADEPT

(Autonomous *Decentralized* Peer-to-Peer Telemetry):

- Bittorrent (file sharing)
- Ethereum (smart contract, blockchain)
- TeleHash (peer-to-peer messaging, mesh networking)

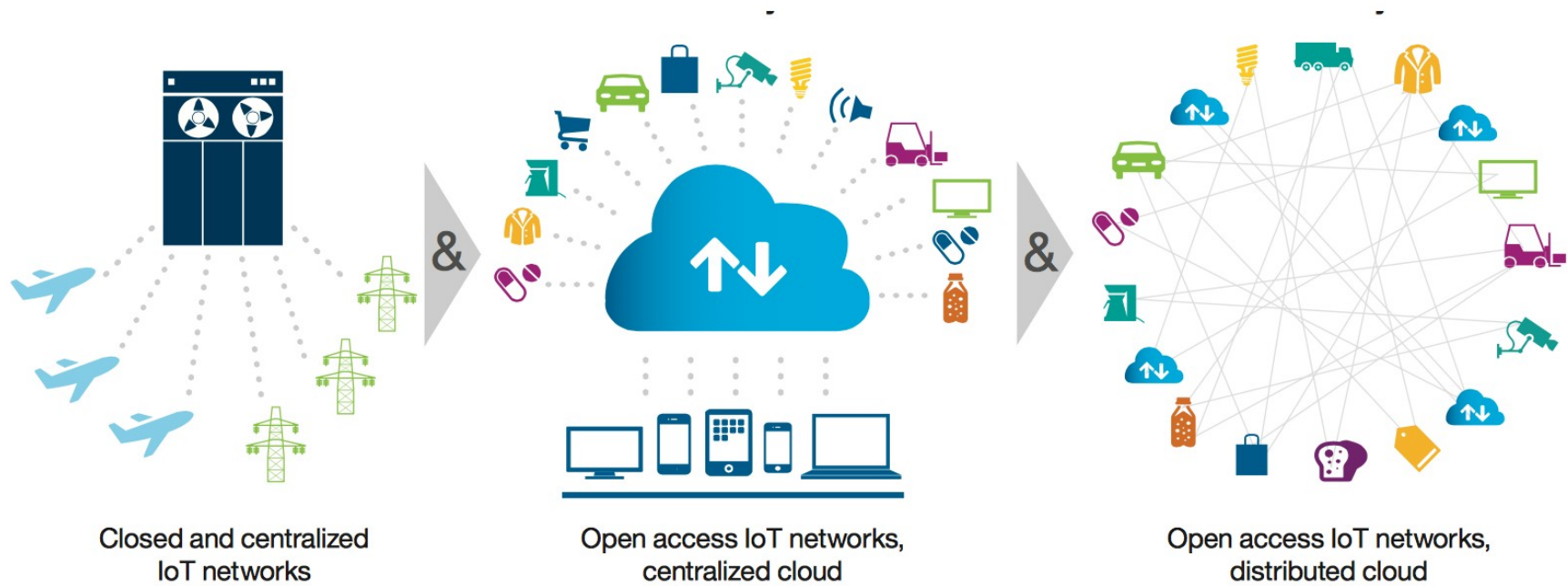
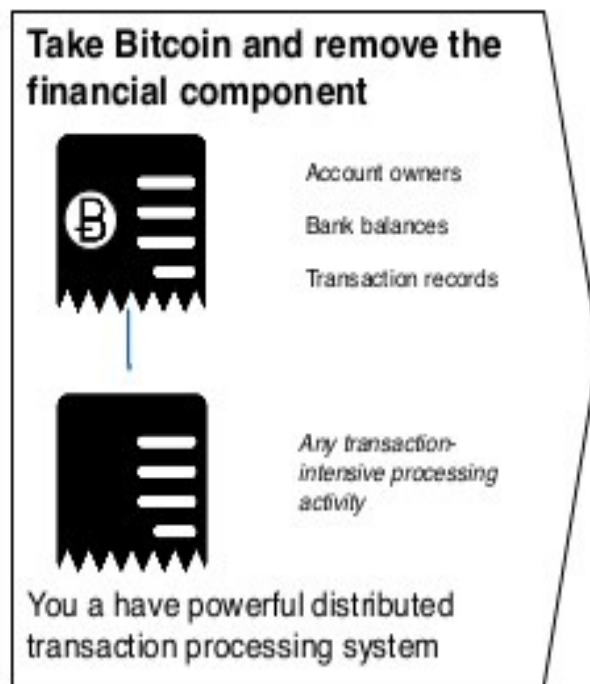


Figure 4: To be safe, scalable and efficient, Internet of Things networks must be re-architected to gradually shift from managing billions of devices to hundreds of billions of devices



Extract the financial component from BitCoin and you have a generic transaction processing system that is programmable



Transaction processing engines are the foundation of many key technology systems:

Both old...



Travel Reservations



Billing Systems



Health Records

And new...



Social Media



Device Data



Documents



IOT MEETS BLOCKCHAIN

Manage Payments and Investments Easily



TilePay is the decentralized application that manages TileCoin/Bitcoins and other digital tokens

TileVest is the crowd-equity funding mechanism

TileIoT enables micro payments via M2M devices

TileExchange is the decentralized trading platform

TileClub is the Investment Club

TileLend is a decentralized cryptocurrency lending platform


```
graph TD; Sensor[Sensor]; Requester[Requester]; SR[Sensor Repository]; BN[Bitcoin Network]; Sensor -- "1. Register" --> SR; Requester -- "2. Request sensors" --> SR; SR -- "3. List of sensors" --> Requester; Requester -- "4. Payment to sensor" --> BN; BN -- "5. Payment notification" --> Sensor; Sensor -- "6. Transaction containing data" --> BN; BN -- "7. Receiving paid data" --> Requester;
```

Blockchain IOT @Startstarad · 1 февр.
Tilepay:Proof of Device
When Your Sensor Earns Money:Exchanging Data for Cash with #bitcoin
cocoa.ethz.ch/downloads/2014...

10 4

Blockchain
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Tilepay IoT (Intern
blockchain - ÐApp
most promising ap
bitcointalk.org/

74 фото или видео



Money:Exchanging Data for Cash with
#bitcoin
cocoa.ethz.ch/downloads/2014...



Устройства и программы смогут удостоверять свою подлинность и принадлежность, переходить из рук в руки, расплачиваться за расходники. И всё это без центральной инфраструктуры, которую должны были бы держать поставщики оборудования, программ, инфраструктуры связи и платежей.

Samsung W9000 washing machine reconfigured to work within the ADEPT system uses smart contracts to issue commands to a detergent retailer in order to receive new supplies. These contracts give the device the ability to pay for the order itself and later receive word from the retailer that the detergent has been paid for and shipped. This information would be broadcast to the smartphone of the washer's owner, a device that would also be connected to that home's network.



Спасибо за внимание!

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