

Real User Questions



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Tracing the product origin ...

Hi all experts, many use cases of using Blockchain are to trace the origin of a product - wine, coffee bean, fruit, painting etc. etc.

While the Blockchain certainly stores the state / status change of the product, the actual step to check the product origin is to scan a RFID, barcode or QR-code. So my questions are ...

1. How can we ensure the origin / status update to the Blockchain is correct in the first place ?
2. How can a customer tell the RFID / barcode / QR-code is not a fake one, or a copy of a genuine product ?
3. And how can the customer tell the result back from the "Blockchain inspector" is from an authority ?

I must have missed something, some process or technology ... any advice welcome !! Thanks in advance. Show less

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Answer:

Michael,

Yours are very valid questions.

They derive from the fact that current crypto-networks are moving towards anonymity and have no way of identifying the players of a distributed application.

Smart contracts are also costly and limited.

My article at: tinyurl.com/y9atv4r9 shows that unique identification is one of the four fundamental blocks needed by any distributed application.

New-generation crypto-networks, such as Gorbyte, will provide unique identification of devices and users verifiable on the blockchain, without requiring names or personal information.

Then, anyone will be able to verify that a message (e.g., a barcode scan) comes from a specific device and owner (e.g., a registered inspector).

Once the fundamental functions are included as primitives of the crypto-network, distributed applications are much easier to develop.

In addition, once the players are verifiable on the blockchain, most of the processing and data exchange can be done off-the-blockchain, achieving ultimate scalability.

Gorbyte will provide the Distributed Operating Environment for the applications of tomorrow.