Questions and Answers for IIW spring 2021 about

KERI Q&A
basic introduction

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<u>LinkedIN</u>

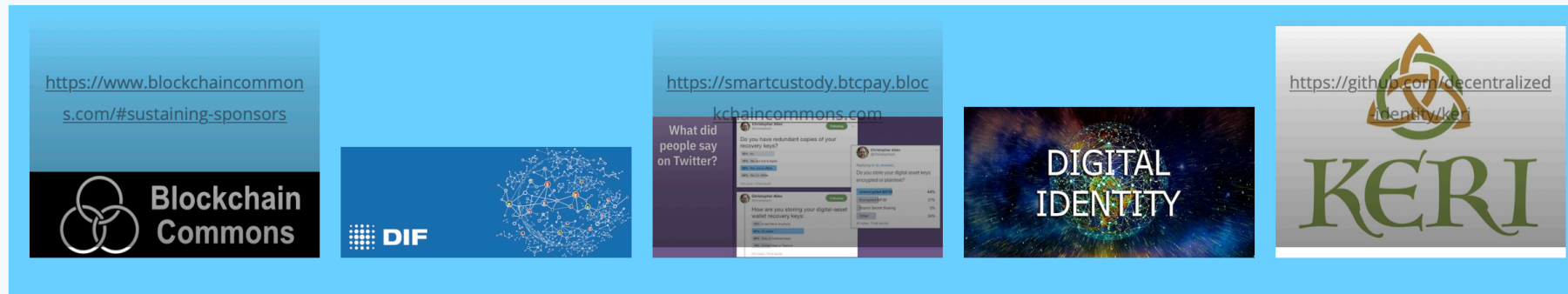## Our spending of available funds on third-party projects

Blockchainbird sponsors meaningful projects (see Github repo for more info).

2019 : https://smartcustody.btcpay.blockchaincommons.com

2020 : Blockchaincommons.com general patronage DIF project KERI basic sponsoring of initiator of the project Blockchaincommons.com Torgap project

2021 : DIF project KERI?

Contributions to third-party projects

Apart from donations in money, we would always contribute work to stay closely involved. Our ultimate goal is to become an integral part of developments that make a better world.

See Github repo for more info on what we are specifically doing for third party project involved.

Henk van Cann

blockchainbird.org

Fully Noded Q&A
Gordian Server Q&A
KERI Q&A
ION Q&A
Sidetree Q&A

What is KERI?

- Key Event Receipt Infrastructure **

- Intends to *repair* the Internet *

- KERI = CT with decentralized CA ***

- NOT a coin, token… *

Why KERI? (and not something else)

- ❖ Strong autonomous identifiers

- ❖ Abiding to privacy (laws and good habits)

- ❖ **Portability**, delegation, rotatable keys

- ❖ Direct & Indirect method

- ❖ <there's more>

For who is KERI?

Personalize your own access to KERI information sources

KERI.ONE

Novices
SSI advanced and proficient

Github KERI

Developers
SSI Experts

KERI.ONE

Truly Decentralized Identity

KERI is the first truly decentralized identity system. It is ledger-less which means it doesn't need to use a ledger at all or ledger-portable which means that its identifiers are not locked to any given ledger and may switch as needed. In other words KERI identifiers are truly portable.

Supports GDPR Compliance

KERI is inherently supportive of GDPR (global data protection rights) compliance. KERI provides non-intertwined identifier trust bases which means that a given identifier's data may be erased and truly forgotten.

Self-Certifying Identifiers

KERI has a decentralized secure root-of-trust based on cryptographic self-certifying identifiers. It uses hash chained data structures called Key Event Logs that enable ambient cryptographic verifiability. In other words, any log may be verified anywhere at anytime by anybody. It has separable control over shared data which means each entity is truly self-sovereign over their identifiers.

Scalability

KERI is designed for high performance and scalability. It is compatible with data intensive event streaming and event sourcing applications.

Key Management Infrastructure

One useful way of describing **KERI** is that it is a decentralized key management infrastructure based on key change events that supports both attestable key events and consensus based verification of key events.

By who is KERI?

Dentralised Identity Foundation Workgroup

Samuel M. Smith

Creator

When can I use KERI?

❖ Today to study and contribute

❖ Today to implement the concept elsewhere

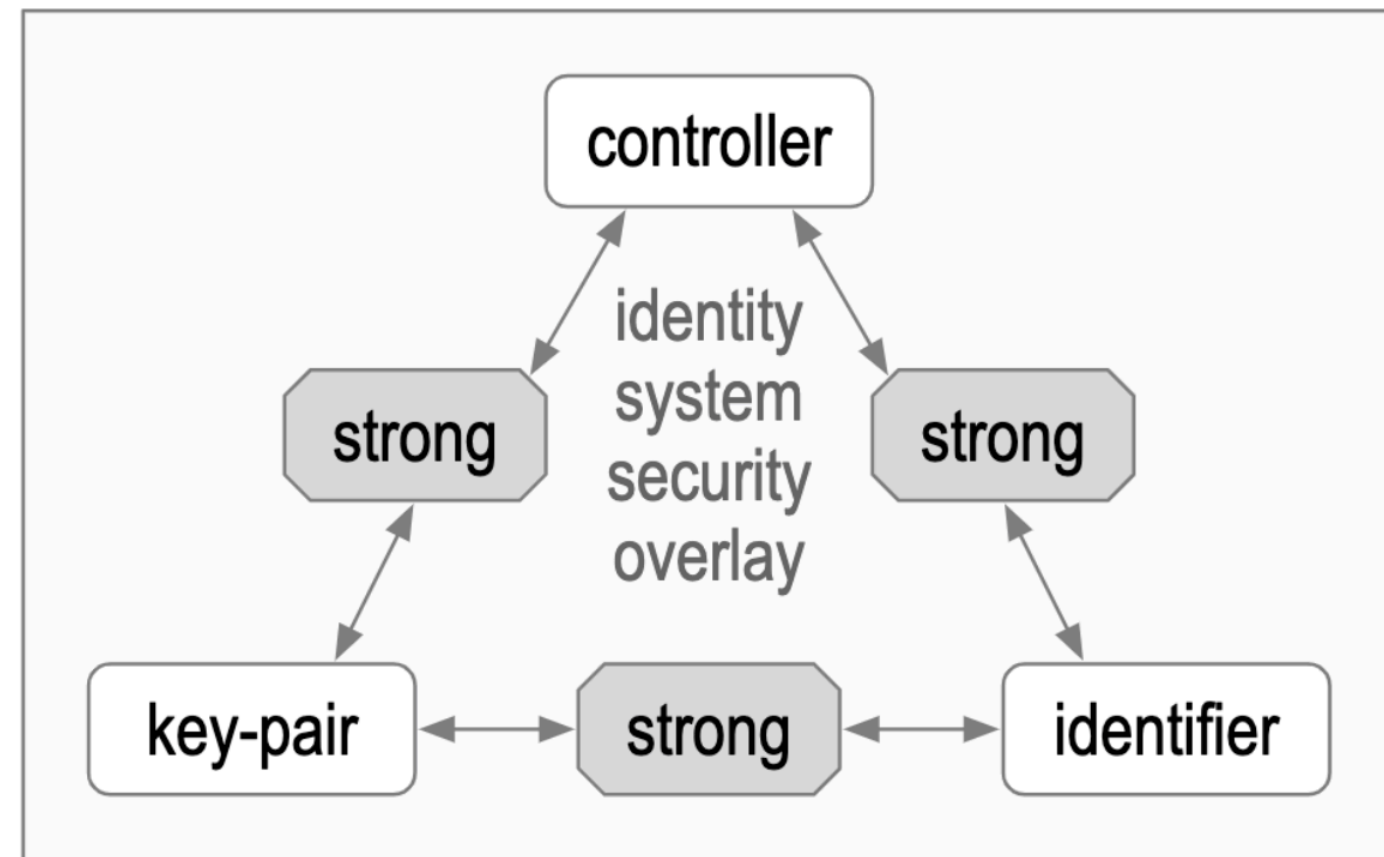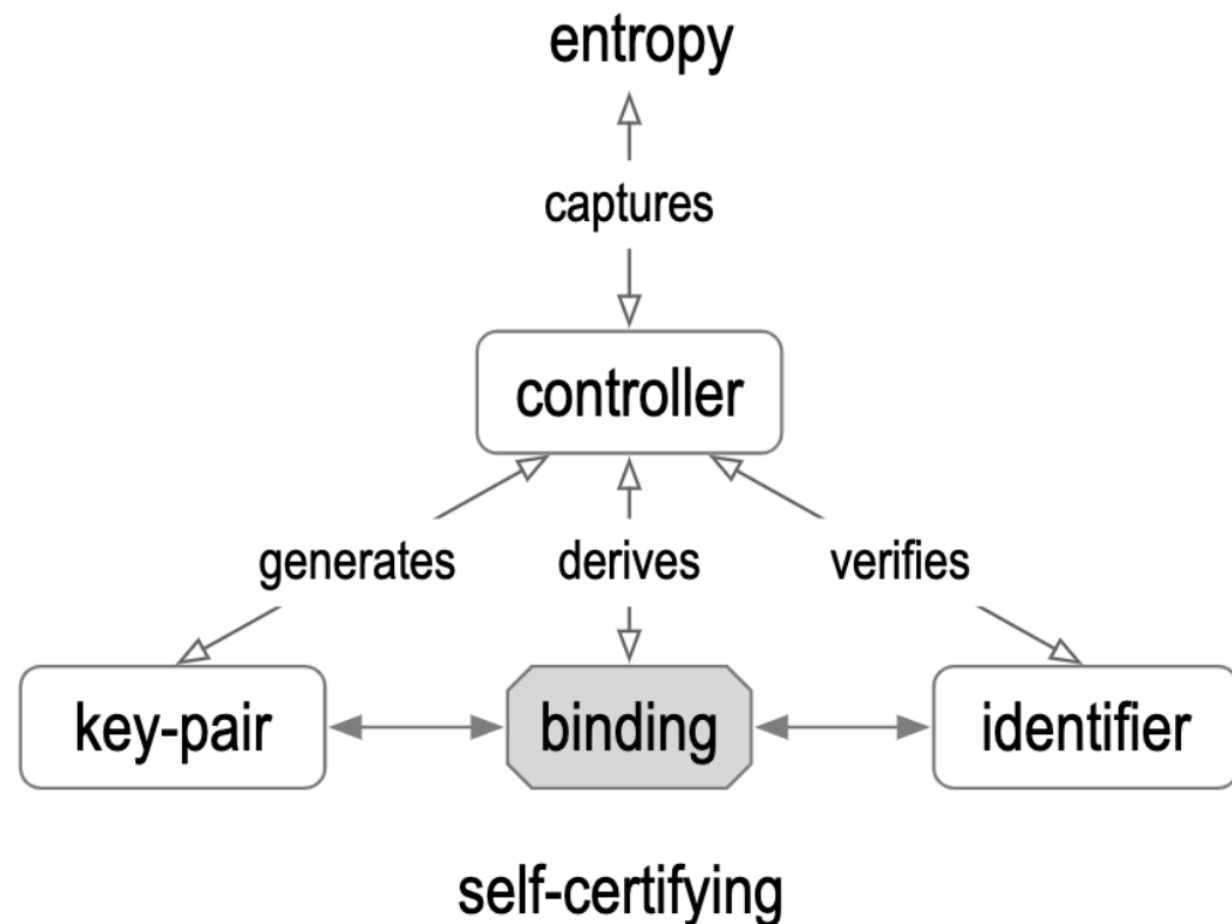❖ Roadmap (<u>current</u>) maybe discussed in other KERI sessions

How to approach KERI?

Four interesting concepts to get your head around:

- ❖ KERI does not need a blockchain

- ❖ Duplicity detection in KERI (public identifiers)

- ❖ Direct and indirect verification method

- ❖ Pre-rotation in KERI

Inception of key pair of Identifier

Self-Certifying Identifier Issuance and Binding

What does the Q&A look like?

How to use GitHub Q&A?

❖ <u>Glossary</u>, <u>Q&A</u> and <u>Q&A security</u>

❖ User levels: * novice, ** advanced, *** expert

❖ Jump table to Categories

❖ (*SamMSmith*)

❖ {TBW prio …} to be written: work in progress

If you get lost, try the definitions below.

What else helps better than to image you have to convince your imaginary _mother-in-law_ of the usefulness of KERI?

You can read this "KERI MADE EASY" as a conversation top down

Who is Carry? Are you messing around?

KERI. Key Event Receipt Infrastructure. Not something to mess around with.

Explain KERI to mother-in-law

Link to page

Bonus

KERI security guarantees

Link to page

10 answers to basic questions

- ❖ 1-5 : What, Why, Who, When, Which way

- ❖ 6: <u>What problem does KERI solve</u>? *

- ❖ 7: <u>Who is KERI</u>? *

- ❖ 8: <u>What does KERI look like</u>? *

- ❖ 9: <u>What is pre-rotation</u>? **

- ❖ 10: <u>What does KERI proof</u>? *