Integration of privacy preserving primitives in hardware wallets

Simon Masson, Renaud Dubois
ZKNox

Privacy and Compliance Summit

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ZKNOX team

Nicolas Bacca
20^+ years experience (10^+y web3)
Security and hardware specialist
Prev. Ledger cofounder/CTO

Renaud Dubois
20^+ years experience (3^+y web3)
Cryptographer
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Simon Masson
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- user end (secure enclaves, hardware wallets),
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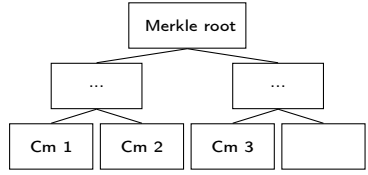
`https://zknox.eth.limo/`

`https://github.com/zknoxhq/`

Introduction: privacy in Ethereum (Railgun)

Alice
1 ETH



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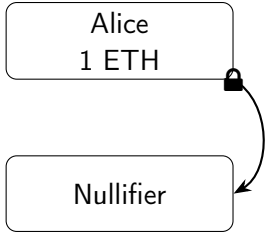

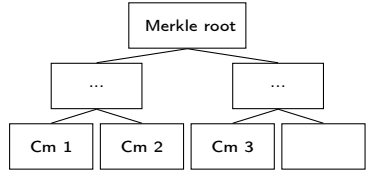

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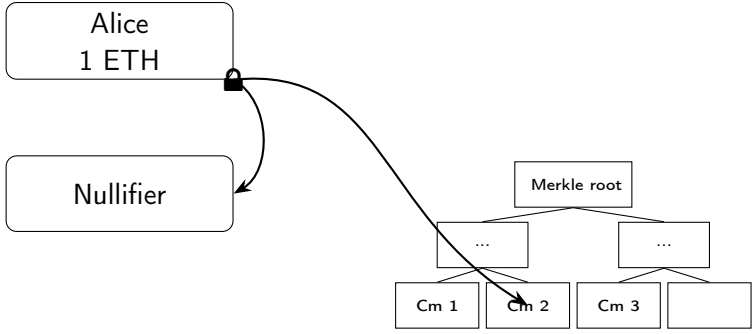

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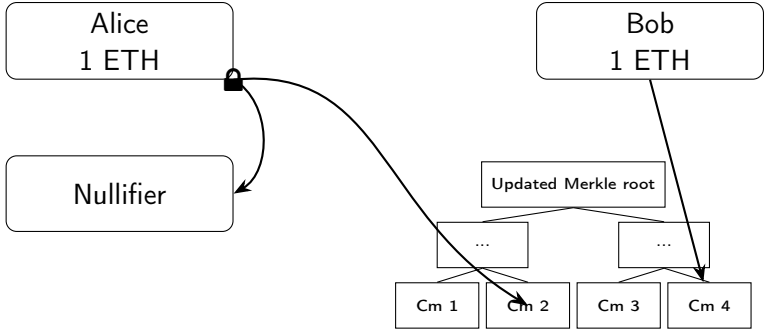

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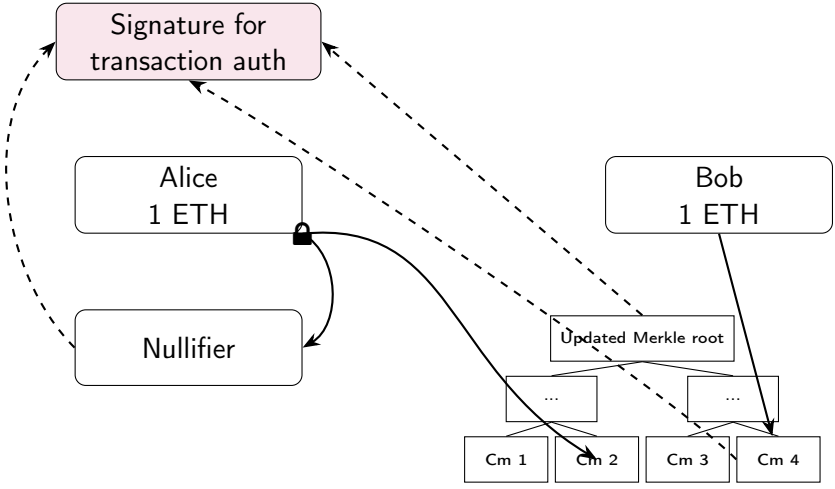

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Issue: custom signature!
We implement EdDSA signatures with Poseidon hash in a Ledger application!

Demo!

Let's how it works in practice!

Conclusion and perspectives

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Thank you for your attention.