

EthCC 6 - Building with purpose, building for all

Introducing SocialConnect and rediscovering Celo's fee currency feature

Presentation on Github: [Oxarthurxyz/ethcc-presentation](https://github.com/Oxarthurxyz/ethcc-presentation)

Abstracting the concept of gas currencies

- User experience with native tokens: CEL0 , ETH , ...
- User experience with stabletokens: cUSD , cEUR , ...

Get started using fee currencies

```
import 'viem' from "viem"  
import { celo } from "viem/chains"  
import { stableTokenABI } from "@celo/abis"
```

```
const transaction = {  
  from: account.address,  
  to,  
  value: parseEther(value),  
  feeCurrency: FEE_CURRENCIES["cusd"],  
}
```

 Full demo on Github: [Oxarthurxyz/ethcc-presentation](https://github.com/Oxarthurxyz/ethcc-presentation)

Technical details

- `feeCurrency` feature uses a whitelist of tokens accepted as fee currencies
- `viem` now has extensible transaction serialisers (uses EIP2718 to create compliant transaction types)
- WalletConnect v2 passes the `feeCurrency` field in the transaction object

Part 2: Introducing SocialConnect

Abstracting the concept of hexadecimal addresses

- User experience with **hexadecimal** addresses: `0x76a4dac...a7315`
- User experience with **phone** numbers, **email** addresses, and other social identifiers:
`+54 182 143 21743`, `alice@example.com`, ...

Metamask

Arthur's ...

Images

Send

0x9Ea5E9b9B48a72325D59B3EBA147F42b1b14BF78

Asset:

ETH

Balance: 0.0854128 ETH

Amount:

10 ETH

£0.00 GBP

Max

Gas (estimated) ⓘ

0.00048164 ETH

Likely in < 30 seconds

Max fee: 0.00064948 ETH

Cancel

Next

11:52

Send to

Ethereum Main Network

Cancel

From:

Oxarthur.xyz

Balance: 0.08541 ETH

To:

0x9Ea5E9b9B48a72325D59B3EBA147F42b1

ⓘ Recipient address is invalid.

q w e r t y u i o p

a s d f g h j k l

⬆ z x c v b n m ⬆

123 😊 space return

🌐

🎤

Ledger

Send

1

Recipient

2

Amount

3

Summary

4

Device

Account to debit

ETH

HODL

0.898774 ETH

↓

Recipient address

0x9Ea5E9b9B48a72325D59B3EBA147F42b1b14BF78

QR

Continue

12:22

Step 2 of 5

Recipient address

✕

QR

Scan QR code

OR

9b9B48a72325D59B3EBA147F42b1b14BF78

QR

Continue

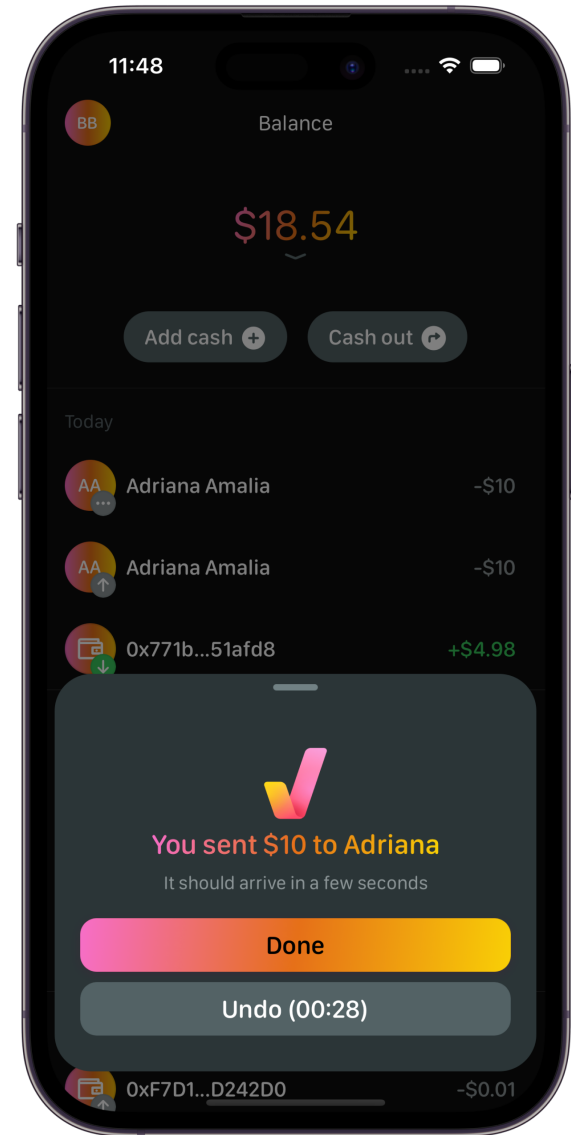
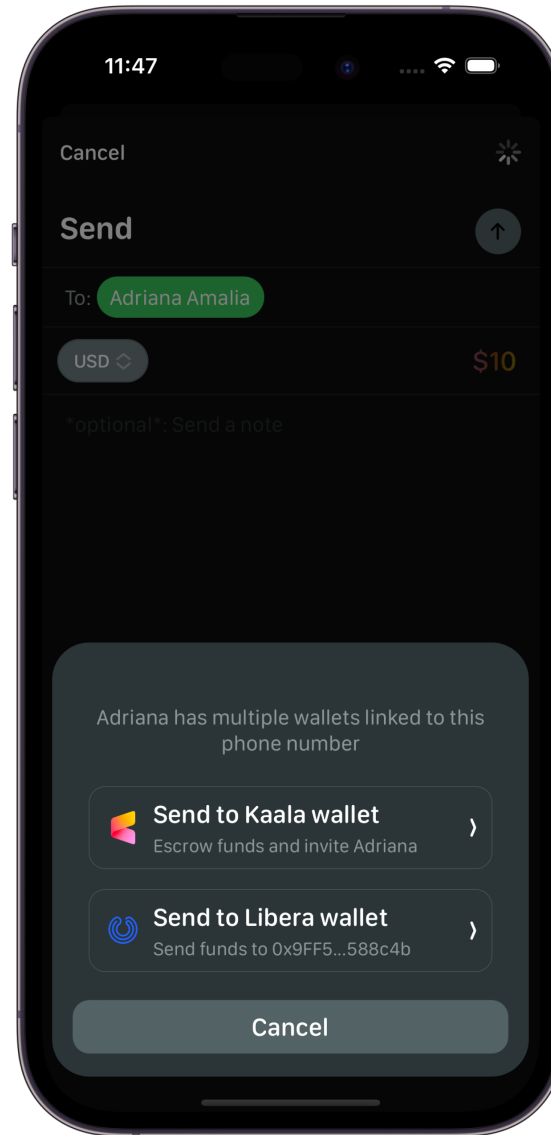
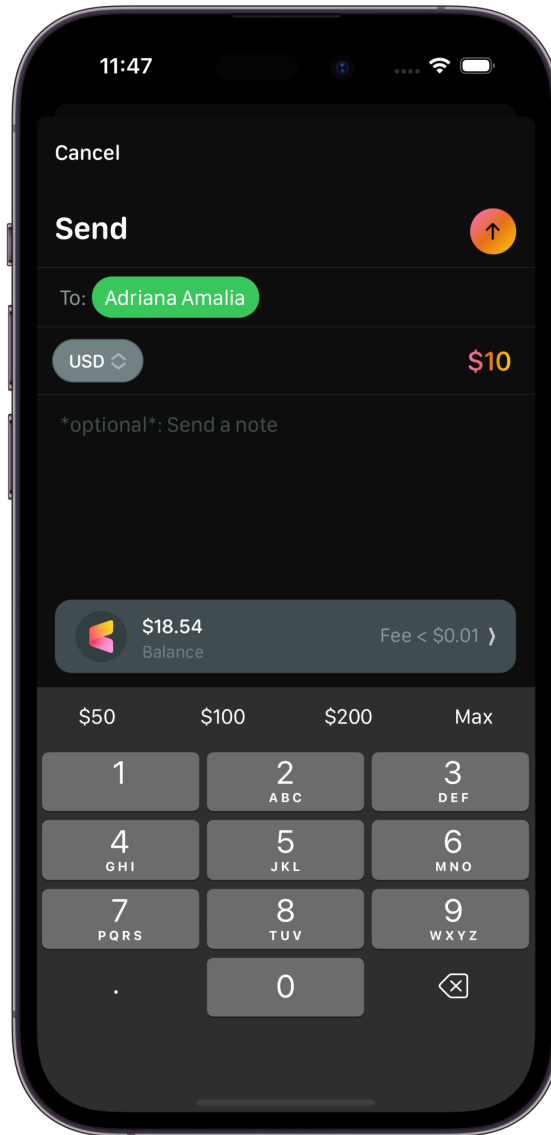
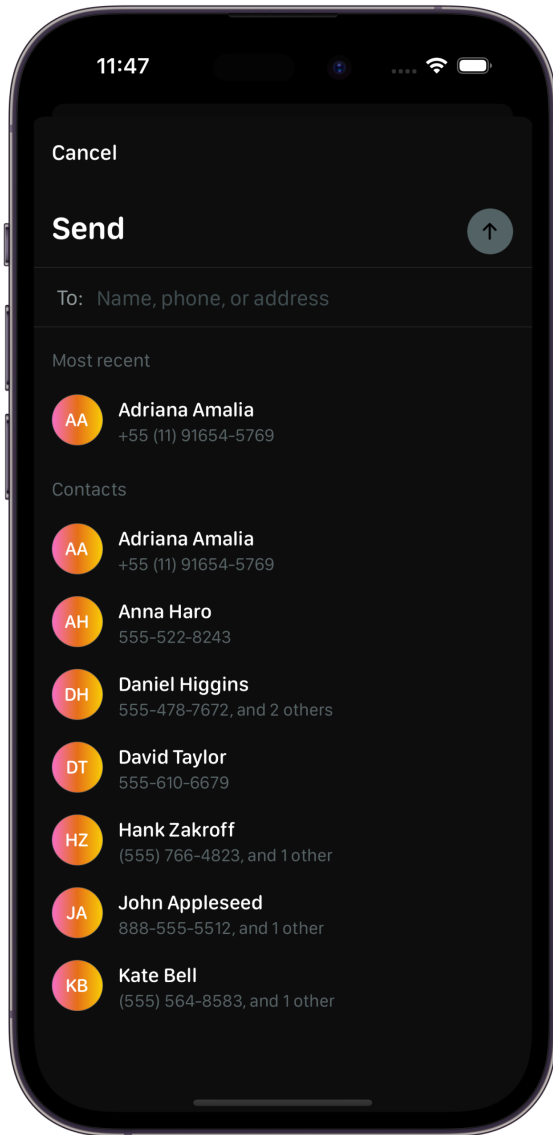
1234567890

- / : ; () £ & @ "

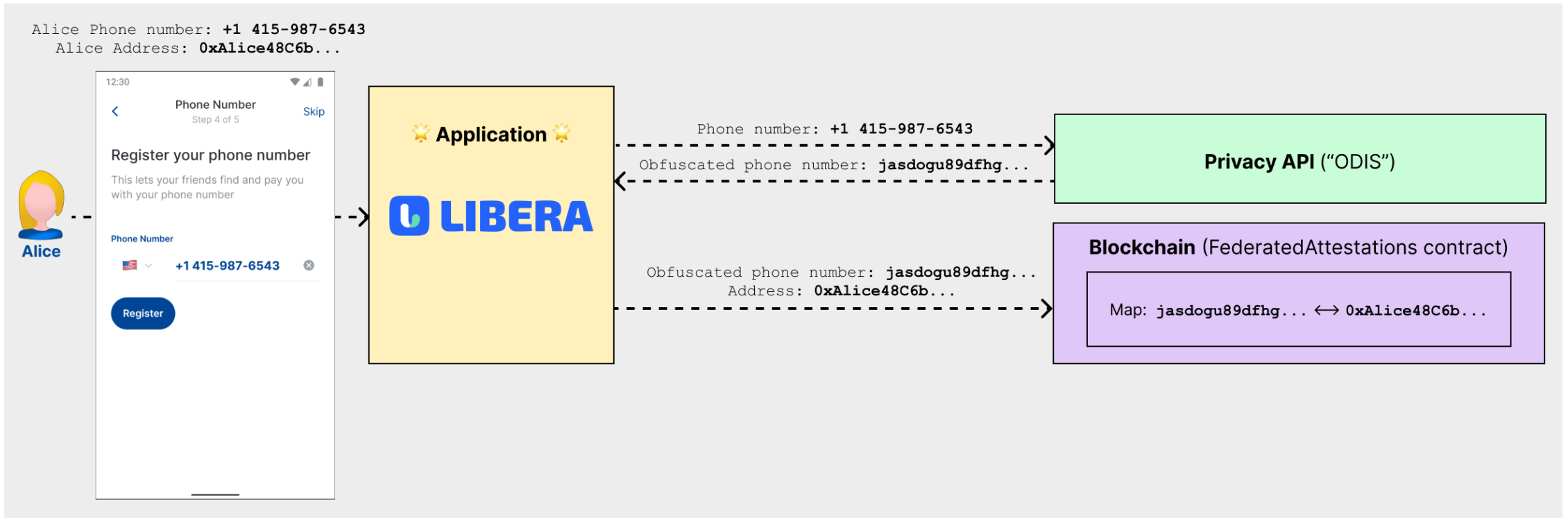
+= . , ? ! ' ✕

ABC 😊 space return

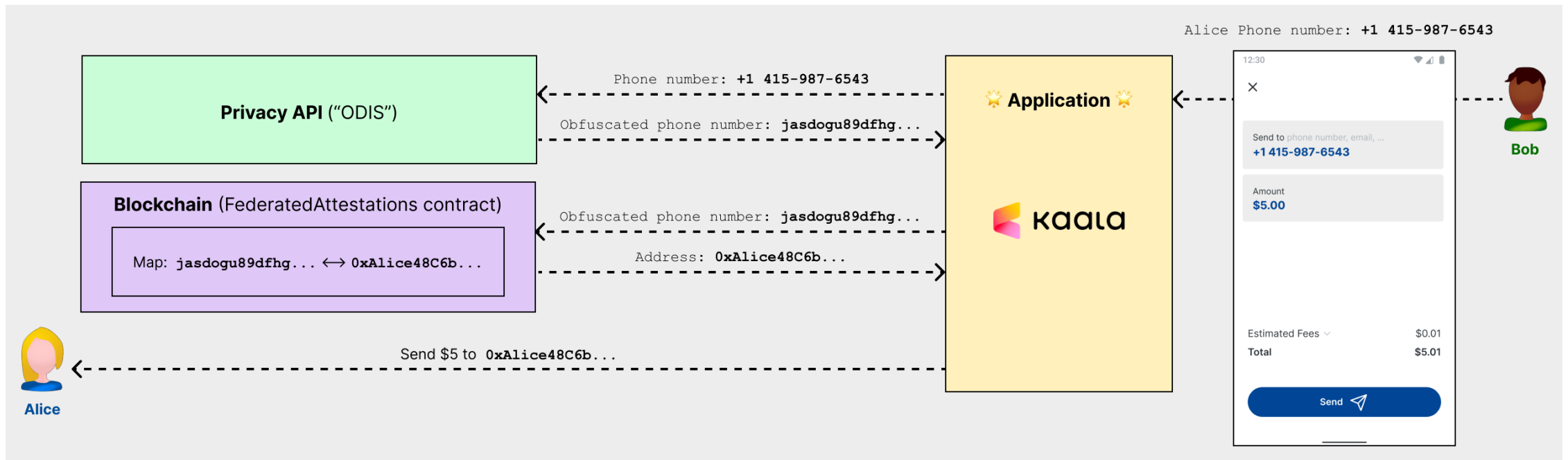
🌐 🎤



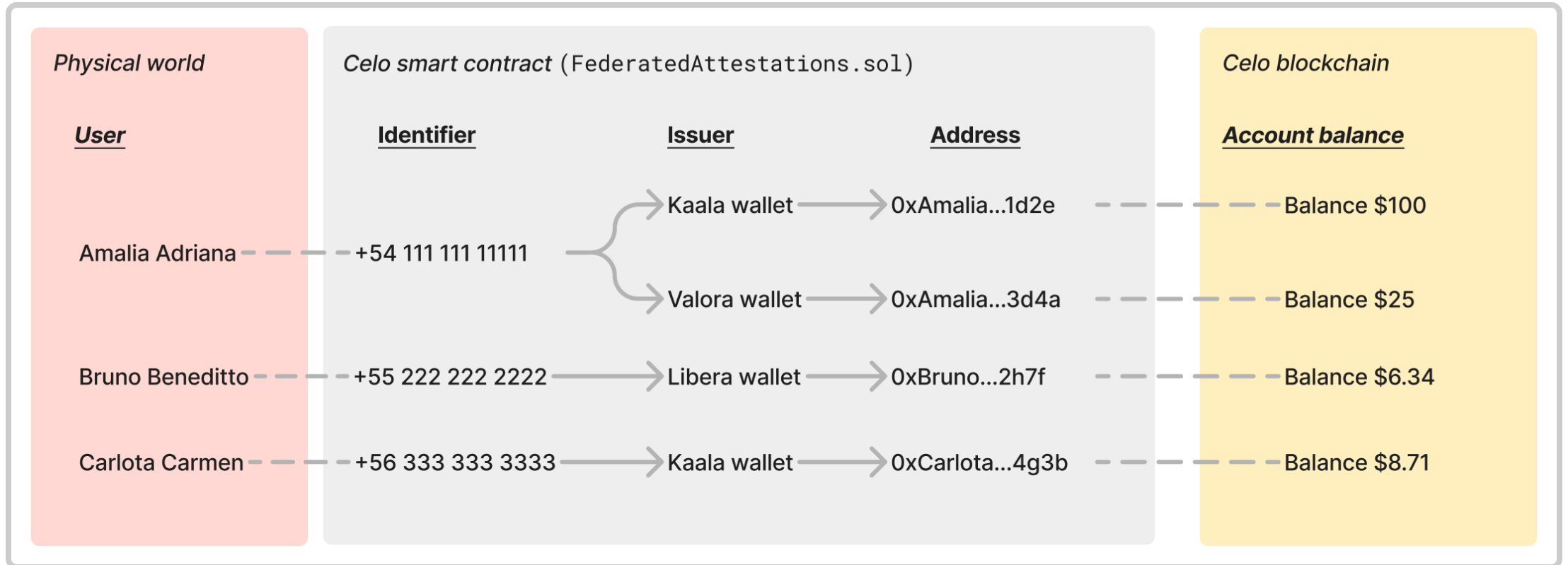
Onboarding request flow



Lookup request flow



Technical intuition



Emily has multiple wallets linked to this
phone number



Send to Kaala wallet

Escrow funds and invite Emily



Send to Liberia wallet

Send funds to 0x5k...34kd ?



Send to Valora wallet

Send funds to 0x6e...dfo4 ?



Cancel

Get started using SocialConnect

```
// upload identifier -> address mapping to onchain registry
await federatedAttestationsContract.registerAttestationAsIssuer(
    obfuscatedIdentifier,
    account,
    NOW_TIMESTAMP
);
```

```
// lookup onchain mapping
const attestations = federatedAttestationsContract.lookupAttestations(
    obfuscatedIdentifier,
    [ this.issuer.address, ]
);
```

 Full demo website: socialconnect.dev

Next steps

- Learn more: socialconnect.dev
- Join: ETHGlobal Paris hackathon
- Find me: [@Oxarthurxyz](https://twitter.com/Oxarthurxyz)


Prizes

Celo Foundation will award 5 prizes to the best teams building for Access: onboarding the next billion users utilizing Celo and tools like Account Abstraction and Social Connect.

Best dApps on Celo blockchain

- 🥇 1st Place: \$3,000
- 🥈 2nd Place: \$2,000
- 🥉 3rd Place: \$1,000
- 📱 Best dApp on Celo utilizing Social Connect: \$2,000
- 🏆 Best dApp utilizing Account Abstraction on Celo: \$2,000

Workshop

 This workshop is happening in-person

Build Consumer Focused DApps using SocialConnect and Account Abstraction

Time: 04:00 PM CEST – Jul 21, 2023

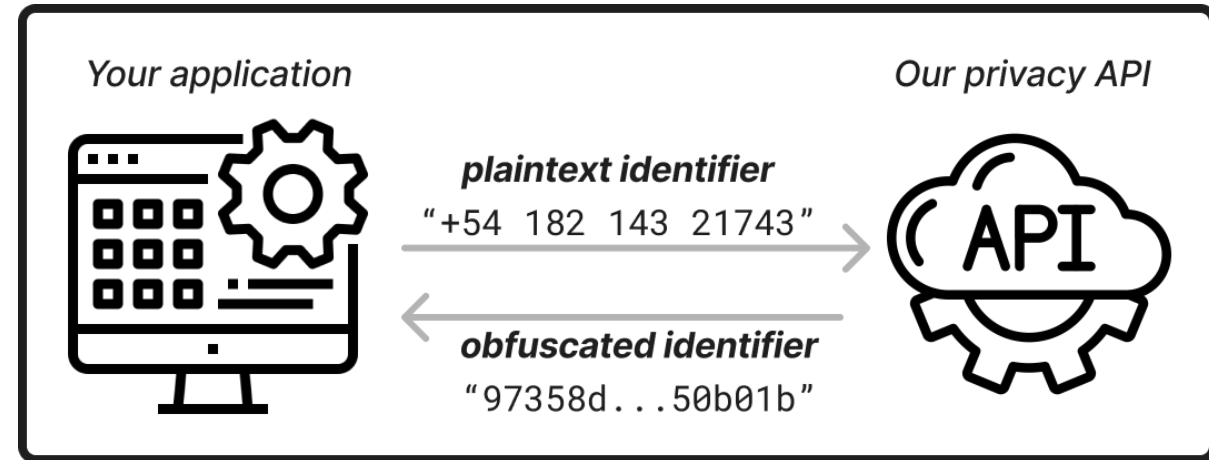
Location: Workshop Room 3

Workshop description ▾

Appendix

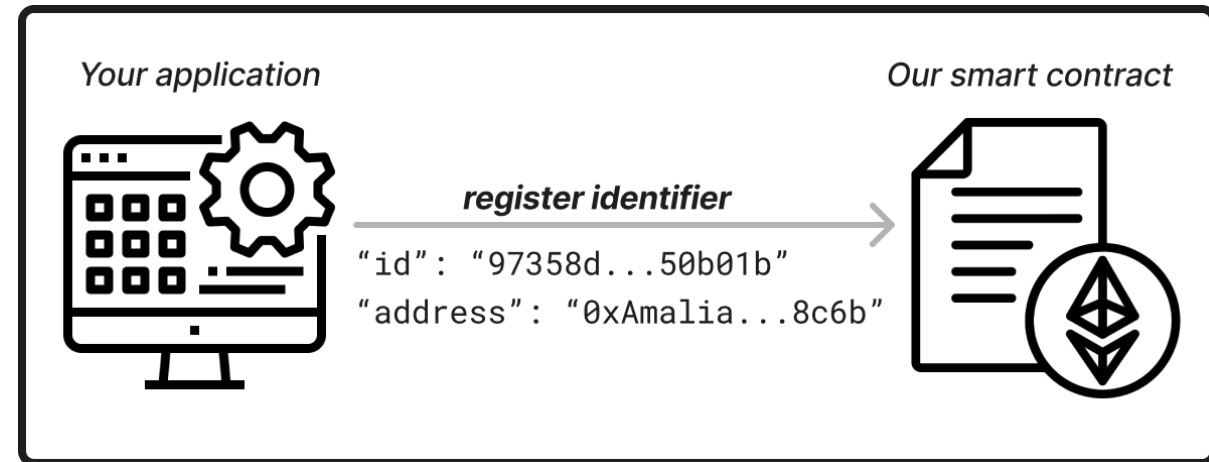
SocialConnect: Obfuscation

Our **privacy API** lets developers obfuscate identifiers while maintaining **interoperability** across applications.



SocialConnect: Registration

Our SDK gives developers complete **freedom** to design **verification** flows and **register** identifiers.



SocialConnect: Lookup

Our SDK lets developers design **delightful** and intuitive **user experiences**.

