



golem

ETHBERLIN

Golem and friends UX workshop summary

, GERT-JAN REBEL

User perspective



Account abstraction for main chain #859

New issue

Open

vbuterin opened this issue on 29 Jan · 8 comments



vbuterin commented on 29 Jan · edited

Collaborator



The following is a copy of the account abstraction proposal discussed [here](#) but coalesced into one piece and adapted for the ethereum main chain by adding back in mandatory in-transaction nonces.

Specification

A new type of transaction is allowed, with the following format:

```
[
  chain_id,      # 1 on mainnet
  target,        # account the tx goes to
  nonce,         # transaction nonce for replay protection
  data,          # transaction data
  start_gas,     # starting gas
  code,          # initcode of the target (for account creation, most of the time sh
  salt,         # contract creation salt (must be 0 or 32 bytes)
]
```

Executing a transaction of this format is done according to the following rules:

1. Set `exec_gas = start_gas - intrinsic_gas`, where `intrinsic_gas` is `21000 + 4 gas per zero byte in data+code + 68 gas per nonzero byte in data+code`.
2. If the account code of the `target` is empty, then attempt to create the account with the specified `code`. Specifically, follow these steps:
 - Assert `salt` is nonempty

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

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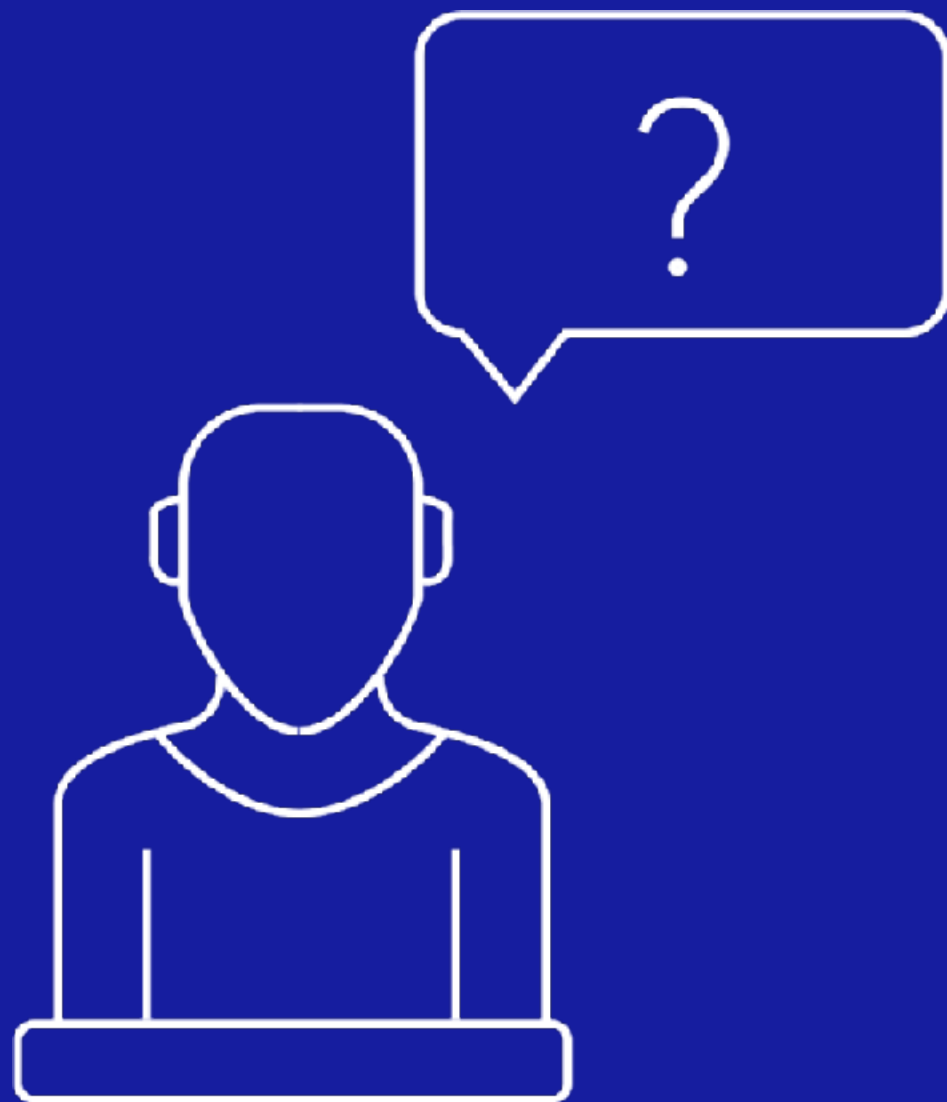
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7 participants



THE MAIN OUTCOMES:

**ONBOARDING
REGULAR USE**



01

Earn ETH with work (F.I. mining)

02

Loan ETH and pay back by usage

03

Give ETH to get started



01

Pay for gas with tokens?

02

Gnosis safe or Status solution

03

Also applicable to other cases like TCR

04

Universal login with alliance to fund

Create knowledge base (WIP)

Contact all people working on this (WIP)

**Will look out for notes on the UX unconf
and feedback, plus more voices**

**Work on a decentralized manner, promote this collaborative environment
and proactively reach out to other teams to donate hours to work on this**

**Once the solution is ready to ship, encourage others
to continue improving it and using it!**

The background is a solid dark blue. Overlaid on this are numerous translucent blue spheres of various sizes. These spheres are interconnected by a network of thin, light blue lines, creating a complex, web-like structure that resembles a decentralized network or a molecular model. The spheres are distributed across the frame, with some appearing larger and more prominent than others.

GOLEM.NETWORK

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