

# Breakout - Native Account Abstraction

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R&D Session at Forschungsingenieurtagung - June 2025.

Duration: 1 hr

Moderator: Alex Forshtat (Telegram: @forshtat)

Note taker: Marissa Posner

## Agenda

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[10 mins] Account Abstraction today

[20 mins] EIP-7701 Native AA design discussion

[10 mins] Mempool and block building with Native AA

[10 mins] Native AA with FOCIL, Statelessness & AA-VOPS

[remaining time] Feedback and discussion

## Summary

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We will discuss Account Abstraction starting with a snapshot of its current landscape. A substantial portion of our time will be dedicated to a deep dive into the latest Native AA design in EIP-7701.

Following our design discussion, we'll examine the effects of Native AA on the mempool and the mechanics of block building. The meeting will culminate in a collaborative exchange, inviting everyone to share their insights and perspectives on these advancements.

## Goals

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- Determine the level of alignment between Native AA and other upcoming EIPs
- Work out an optimal design for Native AA and adopt it in EIP-7701
- Consider scheduling of EIP-7701 for the Glamsterdam update

## Pre-reads

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Here are some resources to warm up on relevant topics:

## Must read

EIP-7701: Native Account Abstraction (<https://eips.ethereum.org/EIPS/eip-7701>)

ERC-4337: Account Abstraction Using Alt Mempool (<https://eips.ethereum.org/EIPS/eip-4337>)

## Advanced reading

ERC-7562: Account Abstraction Validation Scope Rules (<https://eips.ethereum.org/EIPS/eip-7562>)

## Interoperability

EIP-7805: Fork-choice enforced Inclusion Lists (<https://eips.ethereum.org/EIPS/eip-7805>)

A Protocol Design View on Statelessness (<https://ethresear.ch/t/a-protocol-design-view-on-statelessness/22060>)

A pragmatic path towards Validity-Only Partial Statelessness (VOPS) (<https://ethresear.ch/t/a-pragmatic-path-towards-validity-only-partial-statelessness-vops/22236>)

## Relevant code repositories

\* (*RIP-7560 is an RIP variation of EIP-7701*)

Erigon's RIP-7560 based Native AA issue tracker (<https://github.com/erigontech/erigon/issues/14049>)

Eth-Infinity experimental RIP-7560 geth fork (<https://github.com/eth-infinity/go-ethereum>)