

We Are Forking RSV to Enable Meta Transactions



Charlie Smith · [Follow](#)
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TLDR: in preparation for the self-custody version of our app, we will be forking the RSV contract to add support for meta transactions. In conjunction with the addition of the Reserve Relayer, this will enable future app users to make on-chain RSV payments without the requirement of ether. This fork will occur on July 20th. If you are an RSV holder, your funds are safe — exchanges and wallets will be updating to the [new contract address](#). Metamask users will only need to add the new contract address. This has no effect on RSR, which is retaining the same contract address. Anyone is welcome to become a Reserve Relayer and should reach out to us if they are interested in building a dapp to do so (details below).

To make Reserve easy to use and accessible in our target markets, we think it's essential to abstract away as much complexity as possible from the user experience. We have several initiatives under development — ranging from novel means of private key management to allowing users to send RSV to their phone contacts without worrying about public addresses. Today we're letting our community know about one of those initiatives that will go live in two weeks time.

On July 20th we will fork RSV to add support for etherless meta transactions. This will allow users of our upcoming self-custody wallet to pay gas fees in RSV to a relayer. This means they will not have to hold ETH to make RSV transactions on the Ethereum blockchain. Austin Griffith has pioneered this area of Ethereum development and provides a nice introduction to the concept of meta transactions [here](#), if you would like to read more on the topic. We are all beneficiaries of the hard work he and other members of the community have done in this area.

Old contract address: `0x1c5857e110cd8411054660f60b5de6a6958cfae2` **New contract address:** `0x196f4727526eA7FB1e17b2071B3d8eAA38486988`

Here's how meta transactions work: like before, the only way someone can transfer RSV from an account is if they have a copy of the private key. This private key is used to sign a piece of data that authorizes the smart contract to perform a transfer on their behalf. The difference is that instead of submitting the signed data directly to the Ethereum blockchain, they pass the signed data to a relayer, who then submits it to the blockchain on their behalf, paying the gas necessary for the transaction. Relayed transactions are still fundamentally peer to peer, this simply provides RSV holders another option for getting their transactions to the blockchain. To cover the cost of the gas payment made on their behalf, users are able to 'tip' the relayer in RSV.

Meta transactions on Ethereum via Identity Proxy Contract



Austin Griffith explaining meta transactions

Initially Reserve will run the first RSV Relayer, but there's nothing preventing others from joining in. A meta transaction can be submitted by anyone, as long as it includes a valid signature from the original user.

While forks are disruptive, the early stage of the project development is the right time to make them. Expect us to incorporate further changes in the future, while RSV's market cap is still small and we remain in the [centralized phase](#) of the protocol's development. Upgrades like these are key to adapting the Reserve Protocol to the use cases we are targeting.

For those of you holding RSV, most wallets and exchanges who have integrated RSV will update to the new contract address when the fork happens. If you happen to be using a wallet that is slow to make the change (or you use metamask), you can access your RSV by adding it as a custom token and pasting the new contract address in directly.

Some notes on the relayer implementation:

- In the short term the Reserve Relayer will not take advantage of a decentralized gas marketplace, such as the Gas Station Network. In the medium to long-term this will almost certainly make sense to do. This allows many parties to compete to service RSV transactions, providing both greater economic efficiency and strong censorship resistance.
- The Reserve Relayer will be run specifically for users of the self-custody Reserve App and not other wallets for the time being. This is a matter of prioritizing development efforts that we believe will maximize RSV adoption. We encourage our community members to run additional relayers with their own front-end dapp interface to enable meta transactions on third party wallets like Meta Mask, if they are so inclined. Please reach out to us, if this is of interest. We are happy to work with passionate devs from the community who want to contribute to our mission. Reach out to us at contact@reserve.org with the subject title “*Running a Relayer*” to get in touch.

If you've made it this far, thanks for your attention. It's a busy time at Reserve and we have more updates to come. Come join us on Twitter or Telegram to discuss the fork and everything else Reserve.

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