

We are now testing a frequently requested feature - bundle cancellations!

Bundles can be cancelled explicitly through a new method - `eth_cancelBundle`

, or they can be replaced via `eth_sendBundle`

.

If you wish to be able to cancel your bundle, provide a `uuid` with your `eth_sendBundle`

request via the new optional `userUuid`

field. When you pass the same `uuid` to the `eth_cancelBundle`

call, your bundle will be cancelled. If you send us a new bundle via `eth_sendBundle`

with the same `uuid`, the new bundle will replace your previous one.

Connect to our builder on Goerli at <https://relay-goerli.flashbots.net/> or on Sepolia at <https://bundle-relay-sepolia.flashbots.net> and try it out.

All feedback welcome. `userUuid`

is not final!

New `eth_sendBundle`

optional field `userUuid`

The new field should be a `uuid`-formatted string. While you should keep the `userUuid`

secret, just knowing the `uuid` (or knowing how to generate the same `uuid`) is not

enough to cancel it.

```
{ "jsonrpc": "2.0", "id": 1, "method": "eth_sendBundle", "params": [ { txs, // Array[String], A list of signed transactions to execute in an atomic bundle blockNumber, // String, a hex encoded block number for which this bundle is valid on userUuid, // (Optional) uuid-formatted String, used to replace previous bundles minTimestamp, // (Optional) Number, the minimum timestamp for which this bundle is valid, in seconds since the unix epoch maxTimestamp, // (Optional) Number, the maximum timestamp for which this bundle is valid, in seconds since the unix epoch revertingTxHashes, // (Optional) Array[String], A list of tx hashes that are allowed to revert } ] }
```

New `eth_cancelBundle`

call

The call accepts a list of `userUuid`

s to be cancelled.

```
{ "jsonrpc": "2.0", "id": 1, "method": "eth_cancelBundle", "params": [ { userUuid // uuid-formatted String, all bundles provided with that uuid will be cancelled } ] }
```

Guarantees

This is a best-effort feature.

However, we will try to make either true:

- the block sent to relays will not contain cancelled bundles, or
- the block will contain the cancelled bundle, but no transactions or bundles more recent than the bundle cancellation

The bundle is considered cancelled once either the `eth_sendBundle`

or `eth_cancelBundle`

returns 200

.

In case of degraded service performance, we will try to not

include any cancellable (providing userUuid

) bundles.

Technical notes

- The uuid should be unique with regards to the block number. Sending a bundle with the same uuid for multiple blocks will result in replacing all but the last one.
- Cancelling a bundle before eth_sendBundle

returns is undefined behavior, there be dragons

- This feature is greatly improved by relay-level cancellations, see <https://collective.flashbots.net/t/announcing-mev-boost-relay-v0-11-0-notable-feature-block-submission-cancellations/604> - the blocks not containing previously cancelled transactions will be replaced at the relay regardless of profit