sponsorUserOperation

The Pimlico paymaster actions in permissionless.js only work with the v2 Pimlico API. The v1 API for paymasters is deprecated and will be removed in the future.

This version, instead of simply signing over the passed-in User Operation, estimates the gas values for the User Operation and then signs over the estimated gas values, returning not only the paymasterAndData but also the preVerificationGas , verificationGasLimit , and callGasLimit .

Estimates the gas values for the User Operation and sponsors the operation with the new gas values.

Usage

example.ts client.ts ```

File example.ts import{ pimlicoPaymasterClient }from"./client"

constsponsorResult=awaitpimlicoPaymasterClient.sponsorUserOperation({ userOperation: { sender:"0x0C123D90Da0a640fFE54a2359D159629065775C5", nonce:3n,
callData:"0x18dfb3c7000000000000000000000000000000000000000000000000000000000000040000000000000000000000000000000000000000000000000000000000000a000000000000000000000
maxFeePerGas:113000000n, maxPriorityFeePerGas:113000100n,
signature:"0xf1513a8537a079a4d728bb87099b2c901e2c9034e60c95a4d41ac1ed75d6ee90270d52b48af30aa036e9a205ea008e1c62b317e7b3f88b3f302d45fb1ba76a191b" },
sponsorshipPolicyId:"sp_crazy_kangaroo"// optional, only if using Pimlico sponsorship policies }) /* * { *"paymaster": "0xe3dc822D77f8cA7ac74c30B0dfFEA9FcDCAAA321",
"paymasterVerificationGasLimit": 93823n, "paymasterPostOpGasLimit": 134849n, "paymasterData":
"0000000000000000000000000000000000000000000000000000000006514ac7d000000000000000000000000000000000000000000000000000000000000000071eee8c38559ef6872351c16a312cefbc
"preVerificationGas": 61230n, "verificationGasLimit": 93823n, "callGasLimit": 134849n } /*

```

## Returns

- Type:
- SponsorUserOperationReturnType

The estimated gas values for the User Operation and the paymaster related data that includes the Pimlico paymaster address and Pimlico's paymaster signature.

## Parameters

### userOperation

- Type:
- UserOperation

The User Operation object.

### sponsorshipPolicyId (optional)

- Type:
- string

The ID of the sponsorship policy to use. If used, this call will error if the policy is not willing to sponsor this user operation. It is recommended to use pm_validateSponsorshipPolicies before calling this method.

## JSON-RPC Method

pm_sponsorUserOperation