

Sponsor UserOperation End Point

pm_sponsorUserOperation

All paymaster URLs allow you to use both Sponsorship and Token Paymasters. To switch between paymasters you will simply change the Mode of a specific request. We will highlight both types of requests below.

This endpoint is responsible for calculating the `paymasterAndData` field, if applicable, for the given request. The API accepts a partial `UserOp` and an optional token address. By examining the `mode` parameter in the request, it identifies the type of paymaster associated with the request and handles the processing accordingly, as described in the following.

Sponsorship Paymaster

To determine whether a request can be sponsored by the Sponsorship Paymaster, only consider the partial UserOp object and the sponsorshipInfo. If the request cannot be sponsored, thepaymasterAndData will return "0x".

Token Paymaster

Consider both the `partialUserOp` and `tokenAddress` parameters in this case. If the `tokenAddress` is absent, an error will be thrown. If both are present, check for the `TokenPaymaster` flow and send the `paymasterAndData` response accordingly. If the `tokenAddress` is not supported, an error will also be thrown. Please see the error response at the end of this document.

Parameters

Body

Param Type Description Required method string Name of method in this case: pm_getFeeQuoteOrData Required params array An array consisting of the Useroperation object and Paymaster mode information Required id string id for request determined by client for JSON RPC requests Required jsonrpc string JSON RPC version in this case 2.0.0 Required

Params Array for Sponsorship requests

Index Type Description Required 0 object A partial userOperation object for the userOp that needs to be sponsored Required 1 object Mode specified as "SPONSORSHIP" as well as sponsorship information which includes any webhook data and smart account information: name and version Required

Params Array for ERC20 paymaster requests

Index	Type	Description	Required
0	object	A partial userOperation object for the userOp that needs to be sponsored	Required
1	object	Mode specified as "ERC20" as well as tokenInfo: a preferred token address and list of tokens to include	Required

note "MODE" is mandatory for pm_sponsorUserOperation API.

- If "MODE"
- is SPONSORED
- , we check for request sponsorship. If a request cannot be sponsored, we return 0x. This would mean users will pay for their gas fees
- If "MODE"
- is ERC20, we return `paymasterAndData`
- for `TokenPaymaster`. This would mean that users will pay in their preferred ERC20 Tokens

1. Mode is SPONSORED

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