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alchemy_requestGasAndPaymasterAndData

post https://{network}.g.alchemy.com/v2/{apiKey} Requests gas and coverage for a UserOperation . Returns paymasterAndData and gas parameters if approved, errors if not. Optionally accepts fee parameter overrides to be used in the UserOperation .

Network Support

Chain Mainnet Testnet Ethereum Polygon Arbitrum Optimism Base

Overriding gas and fee

You can override our gas and fee estimates using the overrides parameters. Use this parameter to optionally override available fields: maxFeePerGas, maxPriorityFeePerGas, callGasLimit, verificationGasLimit, or preVerificationGas. This will apply either

- 1. absolutes overrides (using a hex string) simply overriding estimated values entirely OR
- 2. multiplier overrides relative to our estimates (in the format of { "multiplier": number } with max precision of 4 decimal places). For example, if the override value is { multiplier: 1.1 } for the maxPriorityFeePerGas field, then a 1.1 multiplier, or a 10% increase, is applied to the estimated maxPriorityFeePerGas of the user operation.

These overrides will be applied for every user op sent with this provider. A higher buffer may give UOs a better chance to mine if the L1/L2 gas and fees change.

"overrides": { "maxFeePerGas": "hex string" | { "multiplier": number }, "maxPriorityFeePerGas": "hex string" | { "multiplier": number }, "callGasLimit": "hex string" | { "multiplier": number }, "preVerificationGas": "he

Deprecated: previous override using "percentage" has been deprecated in favor of "multiplier" values

NOTE

This endpoint does not require a valid signature field. It just requires a dummy signature for gas estimation. You can use the dummy signature mentioned below when the sender account is <u>LightAccount</u> or SimpleAccount:

Path Params apiKey string required .custom-style { color: #048FF4; } For higher throughput, create your own API key Body Params id integer jsonrpc string method string params array of objects Parameters for requesting gas and coverage params object policyld string The policy ID entryPoint string The entrypoint address the request should be sent through. This MUST be one of the entry points returned by thesupportedEntryPoints RPC call. dummySignature string Dummy signature for the operation. This is useful for estimating gas costs. userOperation object Partial UserOperation object, missing gas parameters, paymasterAndData and signature fields. User Operation (missing signature, paymasterData, and gas fields) object overrides object Optional fields to override default gas and fee behavior - this will apply either multiplier overrides relative to our default estimates or absolute overrides overrides object

Response

200

Successful response

Response body object id integer jsonrpc string result object paymasterAndData string The 0x-prefixed hex string for the user to put into the UO's paymasterAndData field. Contains gas manager address, sigTimeRange, and secp256k1 signature. callGasLimit string The amount of gas to allocate the main execution call verificationGasLimit string The amount of gas to allocate for the verification step preVerificationGas string The amount of gas to pay for to compensate the bundler for pre-verification execution and calldata maxFeePerGas string The maximum fee per gas to pay for the execution of this operation (similar to EIP-1559 max_fee_per_gas) maxPriorityFeePerGas string Maximum priority fee per gas (similar to EIP-1559 max_priority_fee_per_gas) error object Error object if the gas and sponsorship request is not approved error object

Updated about 2 months ago