Transaction insights

You can provide transaction insights in MetaMask's transaction confirmation window before a user signs a transaction. For example, you can show the user the percentage of gas fees they would pay for their transaction.

Steps

1. Request permission to display transaction insights

Request the endowment: transaction-insight permission by adding the following to your Snap's manifest file:

snap.manifest.json "initialPermissions" :
{ "endowment:transaction-insight" :
{ } If you need to receive the origin of the transaction request, addallowTransactionOrigin to the permission object, and set it totrue :
snap.manifest.json "initialPermissions" :
{ "endowment:signature-insight" :
{ "allowTransactionOrigin" :
true } }

2. Implement theonTransaction

entry point

{ content :

Expose an <u>onTransaction</u> entry point, which receives a raw unsigned transaction payload, the chain ID, and the optional transaction origin. When a user submits a transaction using the MetaMask extension, MetaMask calls theonTransaction handler method.

The following is an example implementation of on Transaction:

```
index.ts import
type
{ OnTransactionHandler }
from
"@metamask/snaps-sdk"; import
{ panel, heading, text }
from
"@metamask/snaps-sdk";
export
const onTransaction:
OnTransactionHandler
async
( { transaction, chainId, transactionOrigin, } )
=>
{ const insights =
/ Get insights/; return
```

```
panel ([heading ("My Transaction Insights"), text ("Here are the insights:"), ... (insights. map ((insight)) => text (insight.value))), ]), }; }; The Snap tab in the transaction confirmation window displays the transaction insights:
```

Transaction severity level

Flask Only This feature is experimental and only available in MetaMask Flask, the canary distribution of MetaMask. A Snap providing transaction insights can return an optional severity level of "critical". MetaMask shows a modal with the warning before the user can confirm the transaction.

```
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type
{ OnTransactionHandler }
from
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{ panel , heading , text }
from
"@metamask/snaps-sdk";
export
const onTransaction:
OnTransactionHandler
async
( { transaction, chainId, transactionOrigin, } )
{ const insights =
/ Get insights/; return
{ content :
panel ([ heading ("My Transaction Insights"), text ("Here are the insights:"), ... (insights . map ((insight))
=>
text (insight . value ))), ]), severity:
"critical", }; };
```

Example

For a full end-to-end tutorial that walks you through creating a transaction insights Snap, se<u>Create a Snap to calculate gas fee percentages</u>. You can also see the<u>@metamask/transaction-insights-example-snap</u> package for a full example of implementing transaction insights.

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