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## getAssetTransfers - SDK

The Transfers API allows you to easily fetch historical transactions for any address across Ethereum and supported L2s including Polygon, Arbitrum, and Optimism. See the [web documentation](#) for the full details.

All CSS

```
/ dont_have_api_sec_start / .api_key_instruct_ban{ background: #F5FCFF; border: 1px solid rgba(207, 217, 240, 0.2);
border-radius: 12px; -webkit-border-radius: 12px; display: flex; flex-wrap: wrap; padding: 33px; } .markdown-body h3 { color:
#000000 !important; } .api_key_instruct_ban_lft h3{ font-size: 24px; line-height: 1.3; letter-spacing: -0.03em; font-weight: 700;
font-family: 'Inter', sans-serif; margin-bottom: 7px; margin-top: 0px; color: #000000 !important; } .api_key_instruct_ban_lft
h3:last-child{ margin-bottom: 0; } .api_key_instruct_ban_lft p{ font-size: 14px; line-height: 1.3; color: #000000; font-family:
'Inter', sans-serif; font-weight: 400; } .gt_startd_vbtn{ display: inline-block; color: #FFFFFF !important; background: linear-
gradient(126.33deg, #36BEFF 5.38%, #733FF1 108.32%); border-radius: 6px; font-size: 16px; line-height: 1.3; font-weight:
600; font-family: 'Inter', sans-serif; padding: 9px 16px; } .gt_startd_vbtn:hover{ background: #000; color: #fff; }
.api_key_instruct_ban_lft{ flex-basis: 60%; max-width: 60%; padding-right: 15px; } .api_key_instruct_ban_rtt{ flex-basis:
40%; max-width: 40%; padding-left: 15px; align-self: center; } / dont_have_api_sec_end /
```

```
/* ===== responsive css ===== */
```

```
@media(min-width:1025px) {}
```

```
@media(max-width:1199px) {
```

```
.api_main {
  max-width: 100%;
}
.api_main_cont ul li a {
  width: 100%;
}
.left_icon .evm_part {
  width: 73%;
  margin: 22px auto auto auto;
}
.api_main_cont ul li a {
  padding: 10px 18px;
  border-radius: 12px;
}
.api_main_cont ul li a:hover::before {
  border-radius: 12px;
}
.learn_box,
.lear_outer {
  height: 100%;
}
.navbar-nav>li>a {
  font-size: 15px;
  padding: 8px 10px;
}
```

```

.top_header_links ul li a{
  font-size: 15px;
}
.footer_links_box ul li a{
  font-size: 13px;
}
/* dont_have_api_sec_start */
.api_key_instruct_ban{
  display: block;
  text-align: center;
  background: linear-gradient(180deg, #EBF9FF 0%, #EEF3FE 100%);
}
.api_key_instruct_ban_lft,.api_key_instruct_ban_rtt{
  max-width: 100%;
  padding: 0;
  flex-basis: 100%;
}
.api_key_instruct_ban_lft{
  margin-bottom: 30px;
}
/* dont_have_api_sec_end */
}

@media (max-width: 768px) {
  /* dont_have_api_sec_start */

  .api_key_instruct_ban_lft h3{
    font-size: 30px;
  }
  .api_key_instruct_ban_lft p{
    font-size: 16px;
  }
  .wrapper_body_cmnn_out{
    max-width: 100%;
  }
  .api_key_instruct_ban_lft h3 {
    font-size: 40px;
    margin-bottom: 16px;
  }

  /* dont_have_api_sec_end */
}

@media (max-width: 350px){
  /* dont_have_api_sec_start */
  .api_key_instruct_ban_lft h3{
    font-size: 36px;
  }
  .api_key_instruct_ban{
    padding: 30px;
  }
  /* dont_have_api_sec_end */
}

```

whole\_Section\_wrapperdont\_have\_api\_sec\_start### Don't have an API key?

Start using this method in your app today. [Get started for free](#) dont\_have\_api\_sec\_end

## Description

The Transfers API allows you to fetch historical transactions for any address across Ethereum easily and supported L2s including Polygon, Arbitrum, and Optimism.

See the [web documentation](#) for the full details.

## Parameters

Parameter Type Description params object An object containing fields for the asset transfer query

### params

object parameters

Param Type Description fromBlock string The starting block to check for transfers. This value is inclusive and defaults to 0x0 if omitted. toBlock string Inclusive to block (hex string, int, or latest). Defaults to latest if omitted. order? string Whether to



return results in ascending or descending order by block number. Defaults to ascending if omitted. fromAddress? string The from address to filter transfers by. This value defaults to a wildcard for all addresses if omitted. toAddress? string The to address to filter transfers by. This value defaults to a wildcard for all addresses if omitted. contractAddresses array of strings List of contract addresses to filter for - only applies to erc20 , erc721 , erc1155 transfers. Defaults to all addresses if omitted. excludeZeroValue boolean Whether to exclude transfers with zero value. Note that zero value is different from null value. Defaults to true if omitted. category array An array of categories to get transfers for. Available categories include: [ EXTERNAL = external , INTERNAL = internal , ERC20 = erc20 , ERC721 = erc721 , ERC1155 = erc1155 , SPECIALNFT = specialnft ] maxCount number The maximum number of results to return per page. Defaults to 1000 if omitted. pageKey? string Optional page key from an existing one to use for pagination. withMetadata boolean Whether to include additional metadata about each transfer event. Defaults to false if omitted.

## Response

Property Type Description Promise object This returns the object response depending on whether withMetadata was set to true or not.

### AssetTransfersResponse

response object parameters

Parameter Type Description uniqueId string The unique ID of the transfer. category string The category of the transfer. blockNum string The block number where the transfer occurred. from string The from address of the transfer. to string | null The to address of the transfer. value number | null Converted asset transfer value as a number (raw value divided by contract decimal).

null if ERC721 transfer or contract decimal is not available. erc721TokenId string | null The raw ERC721 token id of the transfer as a hex string. null if not an ERC721 transfer. erc1155Metadata ERC1155Metadata[] | null A list of ERC1155 metadata objects, if the asset transferred, is an ERC1155 token. null if not an ERC1155 transfer. tokenId string | null The token id of the token transferred. asset string | null Returns the token's symbol or ETH for other transfers. null if the information was not available. hash string The transaction hash of the transfer transaction. rawContract RawContract Information about the raw contract of the asset transferred.

### AssetTransfersWithMetadataResponse

object parameters

Parameter Type Description uniqueId string The unique ID of the transfer. category string The category of the transfer. blockNum string The block number where the transfer occurred. from string The from address of the transfer. to string | null The to address of the transfer. value number | null Converted asset transfer value as a number (raw value divided by contract decimal).

null if ERC721 transfer or contract decimal not available. erc721TokenId string | null The raw ERC721 token id of the transfer as a hex string. null if not an ERC721 transfer. erc1155Metadata ERC1155Metadata[] | null A list of ERC1155 metadata objects, if the asset transferred, is an ERC1155 token. null if not an ERC1155 transfer. tokenId string | null The token id of the token transferred. asset string | null Returns the token's symbol or ETH for other transfers. null if the information was not available. hash string The transaction hash of the transfer transaction. rawContract RawContract Information about the raw contract of the asset transferred. metadata object Additional metadata about the transfer event. The additional metadata object includes:

1. blockTimestamp : string

Timestamp of the block from which the transaction event originated.

## Example Request and Response

Prerequisite : You will need to install the Alchemy SDK before making requests with it.

The commands for installing it using npm or yarn are given below:

```
npm yarn npm install alchemy-sdk@latest yarn add alchemy-sdk@latest
```

## Request

Here is an example of how to make a getAssetTransfers request using the Alchemy SDK:

```
getAssetTransfers.js // Imports the Alchemy SDK const {Alchemy ,Network }= require ("alchemy-sdk" );// Configures the Alchemy SDK const config = {apiKey : "alchemy-replit" ,// Replace with your API key network :Network .ETH_MAINNET ,//
```

```
Replace with your network };// Creates an Alchemy object instance with the config to use for making requests const alchemy
= new Alchemy (config );const main = async ()=> {///Assign the contract address to a variable let toAddress =
"0x1E6E8695FAB3Eb382534915eA8d7Cc1D1994B152" };//The response fetches the transactions the specified addresses.
let response = await alchemy .core .getAssetTransfers ({fromBlock : "0x0" ,fromAddress
:"0x0000000000000000000000000000000000000000000000000000000000000000" ,toAddress :toAddress ,excludeZeroValue :true ,category : ["erc721"
,"erc1155" ], });//Logging the response to the console console .log (response ) };main ();
```

## Response

```
JSON {"transfers" : [ {"blockNum" : "0xd2113f" , "uniqueId"
:"0xb8ad1138a22a0dcc5eddca1db9aa0c731891fe60041ed6f4d9ceb737c9f1b06d:log:165" , "hash"
:"0xb8ad1138a22a0dcc5eddca1db9aa0c731891fe60041ed6f4d9ceb737c9f1b06d" , "from"
:"0x0000000000000000000000000000000000000000000000000000000000000000" , "to" : "0x1e6e8695fab3eb382534915ea8d7cc1d1994b152" , "value"
:null , "erc721TokenId" : "0x00000000000000000000000000000000000000000000000000000000000000001acb"
,"erc1155Metadata" : null , "tokenId" : "0x00000000000000000000000000000000000000000000000000000000000000001acb"
,"asset" : "DUSK" , "category" : "erc721" , "rawContract" : { "value" : null , "address"
:"0x0beed7099af7514ccedf642cfea435731176fb02" , "decimal" : null } } , {"blockNum" : "0xd2113f" , "uniqueId"
:"0xb8ad1138a22a0dcc5eddca1db9aa0c731891fe60041ed6f4d9ceb737c9f1b06d:log:166" , "hash"
:"0xb8ad1138a22a0dcc5eddca1db9aa0c731891fe60041ed6f4d9ceb737c9f1b06d" , "from"
:"0x0000000000000000000000000000000000000000000000000000000000000000" , "to" : "0x1e6e8695fab3eb382534915ea8d7cc1d1994b152" , "value"
:null , "erc721TokenId" : "0x00000000000000000000000000000000000000000000000000000000000000001acc"
,"erc1155Metadata" : null , "tokenId" : "0x00000000000000000000000000000000000000000000000000000000000000001acc"
,"asset" : "DUSK" , "category" : "erc721" , "rawContract" : { "value" : null , "address"
:"0x0beed7099af7514ccedf642cfea435731176fb02" , "decimal" : null } } , {"blockNum" : "0xe4284a" , "uniqueId"
:"0x04573492a1ecb47102a2a70af190fa47f605a71f54ea62d94a1da1e225b7e157:log:345" , "hash"
:"0x04573492a1ecb47102a2a70af190fa47f605a71f54ea62d94a1da1e225b7e157" , "from"
:"0x0000000000000000000000000000000000000000000000000000000000000000" , "to" : "0x1e6e8695fab3eb382534915ea8d7cc1d1994b152" , "value"
:null , "erc721TokenId" : "0x0000000000000000000000000000000000000000000000000000000000000000bc0"
,"erc1155Metadata" : null , "tokenId" : "0x0000000000000000000000000000000000000000000000000000000000000000bc0"
,"asset" : "NC" , "category" : "erc721" , "rawContract" : { "value" : null , "address"
:"0xe9fca552b9eb110c2d170962af740725f71f5644" , "decimal" : null } } , {"blockNum" : "0xe4284a" , "uniqueId"
:"0x04573492a1ecb47102a2a70af190fa47f605a71f54ea62d94a1da1e225b7e157:log:346" , "hash"
:"0x04573492a1ecb47102a2a70af190fa47f605a71f54ea62d94a1da1e225b7e157" , "from"
:"0x0000000000000000000000000000000000000000000000000000000000000000" , "to" : "0x1e6e8695fab3eb382534915ea8d7cc1d1994b152" , "value"
:null , "erc721TokenId" : "0x0000000000000000000000000000000000000000000000000000000000000000bc1"
,"erc1155Metadata" : null , "tokenId" : "0x0000000000000000000000000000000000000000000000000000000000000000bc1"
,"asset" : "NC" , "category" : "erc721" , "rawContract" : { "value" : null , "address"
:"0xe9fca552b9eb110c2d170962af740725f71f5644" , "decimal" : null } } ] }
```

## Code Sandbox

You can test out the `getAssetTransfers` method using the code sandbox below:

## Use Cases

Here are some common use cases for the `getAssetTransfers` method:

- Asset tracking
- : One of the most common use cases for
- `getAssetTransfers`
- is to track the movement of a particular asset on the blockchain. This can be useful for businesses and organizations that need to keep track of their assets as they move on-chain.
- Audit trails
- : By using
- `getAssetTransfers`
- to retrieve a history of all transfers of a particular asset, auditors can verify the authenticity and provenance of the asset. This can help to prevent fraud and ensure compliance with regulations.
- Payment verification
- :
- `getAssetTransfers`
- can also be used to verify that a payment has been made or received. For example, if a company expects a payment in a particular asset, it can use this function to confirm that the payment has been transferred to its account.

## Related Methods

Here are the methods related to `getAssetTransfers` :

- [call](#)
- : Returns the result of executing the transaction using `call`.

Updated 5 months ago

[isContractAddress - SDK SDK NFT Methods](#) Did this page help you? ☐ Yes ☐ No