Kaiko

MIGRATION GUIDE

Transactions

Amberdata → Kaiko

2026

www.kaiko.com

1 At a glance

What this guide covers. The Amberdata address transactions endpoint and the Kaiko endpoint that replaces it. Both return the confirmed transactions a wallet signed or received, one record per transaction, with the gas, fee, nonce, call data, signature and receipt status. Kaiko serves the same endpoint for bitcoin, litecoin and bitcoincash, and reads a transaction by hash or a whole block window without a wallet.

What changes for you

- The wallet moves from the path to the query parameter `address`; the blockchain moves from a header to the query parameter `blockchain=ethereum` (§2, §4).
- Amounts change unit: Amberdata `value` and `fee` are in wei, Kaiko's are in ETH. Gas prices stay in wei (§5).
- Field names move to snake_case, numbers stored as strings become integers, and `type`, `status` and `v` change format (§6).
- `direction` changes meaning: on Kaiko it picks the wallet's side (`sent`, `received`); the order is `sort` (§6).
- Rename every Amberdata parameter before you switch and send only the parameters listed in §6.

Endpoint map

Amberdata endpoint	Kaiko endpoint	How to call it	§
`blockchains/addresses/{hash}/transactions`	`/blockchains/transactions`	`blockchain` + `address`	6

Coverage & distribution

Data type: Confirmed transactions with receipt: gas, fees, nonce, call data, signature, status; inputs and outputs on UTXO blockchains

Blockchains: ethereum, bitcoin, litecoin, bitcoincash

Reads: by wallet, by transaction hash, or every transaction of a time or block window

Distribution: REST API, `https://api.kaiko.io`

Availability: Live; response version `2026-10-01`

IDENTICAL no change RENAMED same idea, new name or format NEW Kaiko only REMOVED no equivalent

2 Endpoint & authentication

	Amberdata (today)	Kaiko (new)
Method	GET	GET
Base URL	`https://api.amberdata.com`	`https://api.kaiko.io`
Path	`/blockchains/addresses/{hash}/transactions`	`/blockchains/transactions`

	Amberdata (today)	Kaiko (new)
Auth	Header `x-api-key`	Header `X-Api-Key`, your Kaiko key. A missing header or a key in the query string returns 401 `missing_api_key`.
Blockchain	Header `x-amberdata-blockchain-id`, `ethereum-mainnet` only	Query `blockchain`, required, short code (§4)
Wallet	Path, required	Query `address`, optional: without it the endpoint reads every transaction of the window
Version	Not returned on this endpoint	Optional query `api_version=YYYY-MM-DD`; current version `2026-10-01`, echoed in `meta.api_version`
Parameters	Unknown values return 400	Send only the parameters listed in §6.

3 Response envelope & metadata

The fields around the data. Amberdata returns transactions under `payload.records`. Kaiko returns them under `data`, with paging under `meta`.

Amberdata field	Kaiko field	Change	Notes
`status`	HTTP status line	REMOVED	Read the HTTP status code instead.
`title`		REMOVED	"OK" label.
`description`		REMOVED	Free-text status description.
`payload.records`	`data`	RENAMED	Array of transactions, ordered on (`block_number`, `transaction_index`), newest first by default.
	`meta.api_version`	NEW	Version the endpoint served.
	`meta.url`	NEW	The request as received, with `api_version` added.
	`meta.count`	NEW	Number of rows in `data`.
	`meta.next_url`	NEW	Complete URL of the next page, `null` on the last page. Replaces `page`; use it as returned.

Errors

Case	Amberdata	Kaiko
Wallet or hash with no transaction in the window	200, empty `records`	200 with `data: []`
Blockchain not served	400, "invalid argument blockchain: expected one of [ethereum-mainnet]"	404 `unsupported_blockchain` (`polygon`, `base`, `arbitrum`, `bsc`); 400 `chain_capability_unsupported` on `solana`, "solana has no transaction rows"
`from` or `to` filter	400, "from/to filtering not yet supported"	`direction` replaces them (§6)

Case	Amberdata	Kaiko
Malformed value, unknown enum value, window above its cap, conflicting parameters		400 `invalid_parameter`, naming each parameter in `errors`
Future `api_version`		400 `unsupported_api_version`
Missing API key		401 `missing_api_key`
Window outside the key's entitled history		403 `not_entitled`

- **Error format.** Errors are `application/problem+json` with `status`, `title`, `detail`, a stable `code` and, on a 400, an `errors` list of `{parameter, detail}`. Branch on `code`, not on the text.
- **Missing values.** Every key of a row's family is always present; a value that does not apply is `null` (§6).

4 Blockchain & naming conventions

This guide's equivalent of exchange names: the identifiers you send and receive.

Blockchains

Amberdata	Kaiko code	Row family	Notes
`ethereum-mainnet`	`ethereum`	`evm`	The one blockchain Amberdata serves on this endpoint.
	`bitcoin`	`utxo`	New on this endpoint.
	`litecoin`	`utxo`	New on this endpoint.
	`bitcoincash`	`utxo`	New on this endpoint. Addresses in `bitcoincash:` cashaddr form.
	`solana`		400 `chain_capability_unsupported`.

Codes are lower case: `Ethereum` and `ethereum-mainnet` return 400 `invalid_parameter`.

Conventions

- **Field names.** camelCase becomes snake_case: `blockNumber` → `block_number`, `gasUsed` → `gas_used`.
- **One row shape per blockchain family.** Every row carries `chain_family`. An `evm` row has 38 keys, a `utxo` row 20; 13 are common (§6). A response holds one blockchain, so one family. Read the family from each row and skip a value you do not know: new families can be added.
- **Addresses.** Ethereum addresses match in any letter case, so an EIP-55 checksummed address works, and come back lower case. An address the blockchain cannot hold returns 400.
- **Time parameters.** `startDate` and `endDate` become `start_time` and `end_time`, ISO 8601 UTC with a time zone, at most 3 fractional digits; start inclusive, end exclusive, as on Amberdata. A date without a time returns 400.
- **Default window.** Without `start_time` the window starts 90 days before `end_time`, which defaults to now. On ethereum a time window wider than 90 days returns 400; split longer periods. A UTXO window has no maximum.
- **Timestamps.** ISO 8601 UTC with milliseconds, as on Amberdata: `2026-10-30T08:21:35.000Z`.

- **Paging.** `size` becomes `page_size` (Kaiko default 100, maximum 1000, above it 400). `page` is removed: follow `meta.next_url` until it is `null`. A page can hold fewer rows than `page_size`; do not stop on `count`.
- **Order.** Amberdata `direction` (`ascending`, `descending`) becomes `sort` (`asc`, `desc`, default `desc`), on (`block_number`, `transaction_index`). Amberdata's default picks the newest records but lists them oldest first within the page; Kaiko's `desc` lists them newest first.
- **Numbers.** Amounts and per-gas prices are decimal strings; block numbers, indexes, nonce, gas quantities and confirmations are integers. Amberdata's string `"26304344"` becomes `26304344`.

5 Will your values change?

Short answer

No. On the same wallet and window the two APIs return the same transactions with the same hashes, blocks, indexes, timestamps, gas, nonce, call data and signatures. Amounts change unit and four fields change format.

- **Same transactions.** On the same wallet and window, both APIs return the same transactions, hash for hash, with equal fees and status.
- **ETH, not wei.** Amberdata `value` and `fee` are integers in wei. Kaiko divides by 10^{18}: `"33807950000000004"` wei is Kaiko `"0.033807950000000004"` ETH. Kaiko's strings are exact to the wei; to rebuild wei, multiply by 10^{18} in decimal arithmetic. Kaiko drops trailing zeros (`49855166984700` wei reads `"0.0000498551669847"`), so compare numbers, not strings. `gas_price` and the fee caps stay in wei, equal to Amberdata's.
- **Status.** `status` `"0x1"` becomes `success`; `"0x0"` becomes `reverted`. The schema also allows `failed`, with the same meaning for you: the transaction is in a block, paid its fee and changed no state.
- **Transaction type.** The EIP-2718 number becomes a name: `0` `legacy`, `1` `access_list`, `2` `dynamic_fee`, `3` `blob`, `4` `set_code`. Accept unknown names.
- **Signature v.** A decimal string becomes hex: `"1"` → `"0x1"`, `"37"` → `"0x25"` on a legacy transaction.
- **Contract creation.** Amberdata returns `to: [{"address": "null"}]`; Kaiko returns an empty `receiver_addresses` and the new contract in `contract_address`. On other transactions Amberdata's string `"null"` becomes JSON `null`.
- **Which transactions a wallet sees.** On both APIs a wallet's list holds the transactions it signed or was the direct recipient of. A token sent to the wallet by a contract call it did not sign is not in the list; read it from the Kaiko `/blockchains/transfers` endpoint.
- **Confirmations.** Head block minus `block_number`, an integer; the head is the newest block Kaiko holds as safe from re-organisation.
- **Not on Kaiko.** `publicKey`, `raw` and `root` (empty strings on Amberdata), `statusResult` (read `status`) and the token name `to[].nameNormalized`.

6 Transactions

Replaces. `blockchains/addresses/{hash}/transactions`.

What it gives you. One row per confirmed transaction: block, time, hash, sender and receivers, value and fee in the coin unit, status, and the family's own columns: gas, fee caps, call data, logs bloom, signature and blob fields on ethereum; inputs, outputs, sizes and USD values on UTXO blockchains.

	Amberdata (today)	Kaiko (new)
Path	`/blockchains/addresses/{hash}/transactions`	`/blockchains/transactions`

Request parameters

Amberdata param	Kaiko param	Change	Notes
`x-amberdata-blockchain-id` (header)	`blockchain`	RENAMED	Required query parameter (§4).
`hash` (path)	`address`	RENAMED	One wallet. `addresses` is the same filter in list form, one address in this version (two return 400); send one of the two, not both.
`from`, `to`	`direction`	RENAMED	`sent`: the wallet signed; `received`: the wallet received; `all` (default). Needs `address`. Amberdata's `from` and `to` return 400 today.
`direction`	`sort`	RENAMED	`asc` or `desc` (default). `direction=descending` returns 400.
`startDate`	`start_time`	RENAMED	Inclusive. Default 90 days before `end_time` (§4).
`endDate`	`end_time`	RENAMED	Exclusive. Default now.
`blockNumber`	`start_block`, `end_block`	RENAMED	Block window, end exclusive: block N is `start_block=N&end_block=N+1`. On ethereum send both, at most 648,000 blocks, both indexed (a bound above the newest block returns 400).
`size`	`page_size`	RENAMED	1 to 1000, default 100.
`page`		REMOVED	Follow `meta.next_url`.
`decodeTransactions`	`include_decoded_input`	RENAMED	`true` fills `decoded_input` on ethereum rows; changes nothing on UTXO rows.
`includeLogs`		REMOVED	Rows carry `num_logs` and `logs_bloom`; read the logs from `/blockchains/logs` by `transaction_hash`.

Amberdata param	Kaiko param	Change	Notes
`includeTokenTransfers`		REMOVED	Read them from `/blockchains/transfers`.
`includePrice`		REMOVED	UTXO rows always carry `value_usd` and `fee_usd`; ethereum rows carry no USD value.
`validationMethod`		REMOVED	Only confirmed transactions are served.
	`transaction_hash`	NEW	Reads one transaction, `0x`-prefixed on ethereum, any letter case. Takes no window; on ethereum no address either (400).
	`live`	NEW	Accepted; changes nothing today.
	`api_version`	NEW	Optional, `YYYY-MM-DD`.

Response data fields: every row

Amberdata field	Kaiko field	Type	Change	Notes
	`chain_family`	string	NEW	`evm` or `utxo`.
	`blockchain`	string	NEW	Kaiko code, as requested.
`blockNumber`	`block_number`	integer	RENAMED	String to integer.
`blockHash`	`block_hash`	string	RENAMED	Same value.
`timestamp`	`timestamp`	string	IDENTICAL	Block time, ISO 8601 with milliseconds.
`hash`	`transaction_hash`	string	RENAMED	Same value. On UTXO blockchains the txid, without `0x`.
`index`	`transaction_index`	integer	RENAMED	Position in the block, from 0.
`from[].address`	`sender_addresses`	array of string	RENAMED	Array of strings, not of objects. On ethereum the one signer; on UTXO the addresses of the spent outputs, empty for a coinbase.
`to[].address`	`receiver_addresses`	array of string	RENAMED	On ethereum the one recipient, empty for a contract creation; on UTXO the output addresses, change included.
`to[].nameNormalized`		string	REMOVED	Token name of the recipient contract.

Amberdata field	Kaiko field	Type	Change	Notes
`value`	`value`	decimal	RENAMED	Wei to ETH (§5). On UTXO the sum of the outputs, change included.
`fee`	`fee`	decimal	RENAMED	Wei to ETH: `gas_used` times `gas_price` / 10^{18}. On UTXO inputs minus outputs.
`confirmations`	`confirmations`	integer	RENAMED	String to integer.
`status`, `statusResult`	`status`	string	RENAMED	`success`, `reverted` or `failed` (§5). Always `success` on UTXO.

Type `decimal` is a decimal number sent as a JSON string, to keep every digit.

Response data fields: ethereum rows (`evm`)

Amberdata field	Kaiko field	Type	Change	Notes
`type`	`type`	string	RENAMED	Number to name (§5).
`nonce`	`nonce`	integer	RENAMED	String to integer.
`contractAddress`	`contract_address`	string or null	RENAMED	Created contract; `null`, not `"null"`, otherwise.
`gasLimit`	`gas_limit`	integer	RENAMED	String to integer.
`gasUsed`	`gas_used`	integer	RENAMED	String to integer.
`cumulativeGasUsed`	`cumulative_gas_used`	integer	RENAMED	String to integer.
`gasPrice`	`gas_price`	decimal	RENAMED	Wei, same value: the effective price on a fee-market type.
`maxFeePerGas`	`max_fee_per_gas`	decimal or null	RENAMED	Wei. `null` on `legacy` and `access_list`.
`maxPriorityFeePerGas`	`max_priority_fee_per_gas`	decimal or null	RENAMED	Wei. `null` on `legacy` and `access_list`.
`input`	`input`	string	IDENTICAL	Call data, `0x` when empty.
`logsBloom`	`logs_bloom`	string	RENAMED	Same value.
`r`, `s`	`r`, `s`	string	IDENTICAL	Signature values.
`v`	`v`	string	RENAMED	Decimal to hex (§5).

Amberdata field	Kaiko field	Type	Change	Notes
`publicKey`, `raw`, `root`		string	REMOVED	Empty on Amberdata.
	`block_parent_hash`	string	NEW	Hash of the parent block.
	`block_base_fee_per_gas`	decimal	NEW	Wei.
	`burnt_fees`	decimal	NEW	ETH: the block base fee times `gas_used` / 10^{18}.
	`decoded_input`	object or null	NEW	`name`, `signature`, `selector`, `args`. Filled on request only (parameter table); `null` otherwise or when no ABI decodes the call.
	`num_logs`	integer	NEW	Event logs emitted.
	`access_list`	array	NEW	EIP-2930 entries `{address, storage_keys}`; empty when none.
	`blob_hashes`	array of string	NEW	Empty without blobs.
	`blob_gas`, `blob_gas_used`	integer or null	NEW	`null` unless `type` is `blob`.
	`max_fee_per_blob_gas`, `blob_gas_price`	decimal or null	NEW	Wei; `null` unless `type` is `blob`.

Response data fields: bitcoin, litecoin, bitcoincash rows (`utxo`)

Amberdata does not serve UTXO blockchains on this endpoint, so every column below is new.

Kaiko field	Type	Notes
`value_usd`, `fee_usd`	decimal or null	At the coin's price on the day of the block, rounded to the cent; `null` when the coin has no price that day.
`size`, `virtual_size`	integer	Bytes and virtual bytes; equal on bitcoincash.
`adjusted_value`	decimal or null	Net value for the wallet in `address`: received minus spent, negative when it paid out. `null` without `address`.
`inputs`	array	`index`, `addresses`, `spent_transaction_hash`, `spent_output_index`, `sequence`, `script_asm`, `script_hex`, `script_type`, `value`. Empty for a coinbase.
`outputs`	array	`index`, `addresses`, `script_asm`, `script_hex`, `script_type`, `value`.

Before / after example: a reverted token call

Wallet `0x28c6...1d60` at block 26304344. Same transaction, block, index, timestamp, nonce, gas, call data and signature. The fee is the same amount in wei and in ETH; status `"0x0"` reads `reverted`, type `2` reads `dynamic_fee`, `v` `"1"` reads `"0x1"`. Long hex values trimmed.

Amberdata

```
GET /blockchains/addresses/
    0x28c6c06298d514db0899
    34071355e5743bf21d60
    /transactions
    ?blockNumber=26304344
x-api-key: <your-key>
x-amberdata-blockchain-id:
    ethereum-mainnet
```

Kaiko

```
GET https://api.kaiko.io
    /blockchains/transactions
    ?blockchain=ethereum
    &address=
    0x28c6c06298d514db0899
    34071355e5743bf21d60
    &start_block=26304344
    &end_block=26304345
X-Api-Key: <your-key>
```

Amberdata


```
{
  "status": 200,
  "title": "OK",
  "description": "Successful request",
  "payload": { "records": [ {
    "blockHash": "0x326ecf98...0fb5",
    "blockNumber": "26304344",
    "confirmations": "23542",
    "contractAddress": "null",
    "cumulativeGasUsed": "8383767",
    "fee": "28477419137968",
    "from": [ { "address":
      "0x28c6c062...1d60" } ],
    "gasLimit": "207128",
    "gasPrice": "1133113924",
    "gasUsed": "25132",
    "hash": "0xee973b8d...4b65",
    "index": 56,
    "input": "0xa9059cbb...0000",
    "logsBloom": "0x0000...0000",
    "maxFeePerGas": "170000000000",
    "maxPriorityFeePerGas":
      "1000000000",
    "nonce": "18915336",
    "publicKey": "",
    "r": "0x84fc8134...eb02",
    "raw": "",
    "root": "",
    "s": "0x3f193de1...88aa",
    "status": "0x0",
    "statusResult": {
      "code": "0x0",
      "confirmed": true,
      "name": "failed",
      "success": false },
    "timestamp":
      "2026-10-30T08:21:35.000Z",
    "to": [ { "address":
        "0x8de5b80a...8624",
      "nameNormalized": "VANRY" } ],
    "type": 2,
    "v": "1",
    "value": "0"
  } ] }
}
```


Kaiko


```
{
  "data": [ {
    "blockchain": "ethereum",
    "block_number": 26304344,
    "block_hash": "0x326ecf98...0fb5",
    "block_parent_hash":
      "0xd98c2528...824f",
    "block_base_fee_per_gas":
      "133113924",
    "timestamp":
      "2026-10-30T08:21:35.000Z",
    "transaction_hash":
      "0xee973b8d...4b65",
    "transaction_index": 56,
    "type": "dynamic_fee",
    "nonce": 18915336,
    "sender_addresses":
      [ "0x28c6c062...1d60" ],
    "receiver_addresses":
      [ "0x8de5b80a...8624" ],
    "contract_address": null,
    "value": "0",
    "fee": "0.000028477419137968",
    "gas_limit": 207128,
    "gas_used": 25132,
    "cumulative_gas_used": 8383767,
    "gas_price": "1133113924",
    "max_fee_per_gas": "170000000000",
    "max_priority_fee_per_gas":
      "1000000000",
    "burnt_fees":
      "0.000003345419137968",
    "confirmations": 23542,
    "status": "reverted",
    "input": "0xa9059cbb...0000",
    "decoded_input": null,
    "logs_bloom": "0x0000...0000",
    "num_logs": 0,
    "access_list": [],
    "blob_hashes": [],
    "blob_gas": null,
    "max_fee_per_blob_gas": null,
    "blob_gas_price": null,
    "blob_gas_used": null,
    "r": "0x84fc8134...eb02",
    "s": "0x3f193de1...88aa",
    "v": "0x1",
    "chain_family": "evm"
  } ],
  "meta": { "api_version": "2026-10-01",
    "url": "...", "count": 1,
    "next_url": null }
}
```


Before / after example: an ETH transfer, value in wei and in ETH

Wallet `0x62a2...a7ac` over one minute: one incoming transfer. `value` 33807950000000004 wei is 0.033807950000000004 ETH; `fee` 2349753504000 wei is 0.000002349753504 ETH. Selected fields shown.

Amberdata

```
GET /blockchains/addresses/
    0x62a2241a9c40bb305d75
    ee4c846f3221fefaa7ac
    /transactions
    ?startDate=
      2026-10-30T08:00:00.000Z
    &endDate=
      2026-10-30T08:01:00.000Z

"records": [ {
  "blockNumber": "26304241",
  "hash": "0x69815489...fae9",
  "index": 476,
  "from": [ { "address":
    "0x6872b663...f7de" } ],
  "to": [ { "address":
    "0x62a2241a...a7ac" } ],
  "value": "33807950000000004",
  "fee": "2349753504000",
  "gasUsed": "21000",
  "gasPrice": "111893024",
  "type": 2,
  "status": "0x1",
  "timestamp":
    "2026-10-30T08:00:59.000Z"
} ]
```

Kaiko

```
GET https://api.kaiko.io
    /blockchains/transactions
    ?blockchain=ethereum
    &address=
    0x62a2241a9c40bb305d75
    ee4c846f3221fefaa7ac
    &start_time=
      2026-10-30T08:00:00.000Z
    &end_time=
      2026-10-30T08:01:00.000Z

"data": [ {
  "block_number": 26304241,
  "transaction_hash":
    "0x69815489...fae9",
  "transaction_index": 476,
  "sender_addresses":
    [ "0x6872b663...f7de" ],
  "receiver_addresses":
    [ "0x62a2241a...a7ac" ],
  "value": "0.033807950000000004",
  "fee": "0.000002349753504",
  "gas_used": 21000,
  "gas_price": "111893024",
  "type": "dynamic_fee",
  "status": "success",
  "timestamp":
    "2026-10-30T08:00:59.000Z"
} ]
```

Kaiko example: a bitcoin wallet

New on Kaiko: the same endpoint on bitcoin. With `address` set, `adjusted_value` is the wallet's net movement: here it paid 0.00000015 BTC, the fee, and kept the rest as change. Inputs and outputs trimmed.

Kaiko request

```
GET https://api.kaiko.io
    /blockchains/transactions
    ?blockchain=bitcoin
    &address=bc1qanfrvw5lunle
    mvm09dthnxmwknal0fw0q7jfnm
    &page_size=1
X-Api-Key: <your-key>
```

Kaiko response


```
{
  "data": [ {
    "blockchain": "bitcoin",
    "block_number": 974268,
    "block_hash": "00000000...26e9",
    "timestamp":
      "2026-11-02T14:41:58.000Z",
    "transaction_hash":
      "ec3e08a1...1a94",
    "transaction_index": 3382,
    "sender_addresses":
      [ "bc1qanfr...jfnm" ],
    "receiver_addresses":
      [ "bc1qanfr...jfnm" ],
    "value": "0.00048835",
    "value_usd": "37.93",
    "fee": "0.00000015",
    "fee_usd": "0.01",
    "size": 206,
    "virtual_size": 125,
    "confirmations": 1,
    "status": "success",
    "adjusted_value": "-0.00000015",
    "inputs": [ { "index": 0,
      "value": "0.0004885", ... } ],
    "outputs": [ { "index": 0,
      "value": "0.00048835", ... },
      { "index": 1,
      "script_type": "nulldata",
      "value": "0", ... } ],
    "chain_family": "utxo"
  } ],
  "meta": { "api_version": "2026-10-01",
    "url": "...", "count": 1,
    "next_url": "https://api.kaiko.io
      /blockchains/transactions?..." }
}
```