Kaiko

MIGRATION GUIDE

Event Logs

Amberdata → Kaiko

2026

www.kaiko.com

1 At a glance

What this guide covers. The Amberdata address logs endpoint and the Kaiko endpoint that replaces it. Both return the raw EVM event logs a contract emitted, one row per log, with the topics and data undecoded. On the same contract and window, both APIs return the same logs with the same values.

What changes for you

- The contract address moves from the path to the query parameter `address`; the blockchain moves from a header to the required query parameter `blockchain=ethereum` (§4, §6).
- `topic` becomes `topic0`, `blockNumber` becomes the pair `start_block` and `end_block`, and paging moves to `page_size` and `meta.next_url` (§6).
- `data` changes shape: one `0x`-prefixed hex string instead of an array of 32-byte words. Join the words to compare; split every 64 hex characters to rebuild them (§5).
- Times are ISO 8601 strings, block numbers are integers, and `removed` is not served (§5, §6).

Endpoint map

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

Coverage & distribution

Data type: Raw EVM event logs: block, transaction, log index, emitting contract, topics, data

Blockchains: ethereum

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}/logs`	`/blockchains/logs`
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`; an unknown key returns 401 `invalid_api_key`.
Blockchain	Header `x-amberdata-blockchain-id`, `ethereum-mainnet` only	Query `blockchain`, required, short code (§4)

	Amberdata (today)	Kaiko (new)
Version	Not returned on this endpoint	Optional query `api_version=YYYY-MM-DD`; current version `2026-10-01`, echoed in `meta.api_version`
Parameters	An unknown parameter returns 400, "parameter ... is not supported"	Send only the parameters listed in §6. Any other parameter, Amberdata names such as `size` or `topic` included, returns 400 `invalid_parameter` naming it.

3 Response envelope & metadata

The fields around the data. Amberdata returns the logs under `payload.records`; Kaiko returns them under `data`, with paging and version details 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 logs, one object per log, in the order `sort` asks for.
`payload.metadata.next`	`meta.next_url`	RENAMED	Complete URL of the next page; `null` on the last page. Use it as returned.
	`meta.api_version`	NEW	Version the endpoint served.
	`meta.url`	NEW	The request as received, with `api_version` added.
	`meta.count`	NEW	Number of logs in `data`.

Errors

Case	Amberdata	Kaiko
No log matches: an address that emitted no log in the window, an unknown transaction hash	200, empty `records`	200, `data: []`, `next_url: null`
Blockchain without event logs	444 on `bitcoin-mainnet`	400 `chain_capability_unsupported`, "bitcoin has no logs" (`bitcoin`, `bitcoincash`, `litecoin`, `solana`)
EVM blockchain not served	400 "not yet supported" or 444	404 `unsupported_blockchain` (§4)
Malformed or missing parameter, unknown parameter, forbidden combination, window wider than the cap	400 with a message	400 `invalid_parameter`, naming the parameter in `errors[].parameter`
`api_version` in the future		400 `unsupported_api_version`

Case	Amberdata	Kaiko
Window outside the history your key is entitled to		403 `not_entitled`
Missing or unknown API key		401 `missing_api_key` or `invalid_api_key`

- **Error format.** Errors are `application/problem+json` with `status`, `title`, `detail`, `instance` and a stable `code`. Branch on `code`, not on the text.
- **No nulls.** Every key is present on every row and none is `null`: an event without topics has `topics: []` and a log without data has `data: "0x"`.

4 Blockchain & naming conventions

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

Blockchains

Amberdata	Kaiko code	Notes
`ethereum-mainnet`	`ethereum`	The one blockchain served on both APIs. Lower case: `Ethereum` and `ethereum-mainnet` return 400 `invalid_parameter`.
`polygon-mainnet`, `avalanche-mainnet`, `arbitrum-mainnet`, `optimism-mainnet`		Not served on either API. Kaiko returns 404 `unsupported_blockchain` on `polygon`, `arbitrum`, `optimism`, `base`, `bsc` and `avalanche`.

Conventions

- **Field names.** camelCase becomes snake_case: `logIndex` → `log_index`, `transactionHash` → `transaction_hash`. `address`, `topics` and `data` keep their names.
- **Hex values.** Addresses, hashes, topics and data are lower case and `0x`-prefixed. Each topic is a full 32-byte value (64 hex characters). The `address`, `transaction_hash` and `topic0` parameters match in any letter case, so an EIP-55 checksummed address works.
- **Timestamps.** Block time as an ISO 8601 UTC string with milliseconds, always `.000` since blocks record whole seconds: `1793606447000` → `2026-11-02T08:00:47.000Z`.
- **Numbers.** `block_number`, `transaction_index` and `log_index` are integers. Amberdata's string `blockNumber` (`"26325762"`) becomes `26325762`.
- **Time window.** `start_time` inclusive, `end_time` exclusive, ISO 8601 with a time zone (`Z` or an offset), at most millisecond precision: more non-zero fractional digits return 400, as do a bare date or an epoch number. Without `start_time` the window covers the 90 days before `end_time`, which defaults to now.
- **Block window.** `start_block` inclusive, `end_block` exclusive, always sent together. Block and time bounds combine: every bound sent applies.
- **Window caps.** With `address` or `transaction_hash` the window has no maximum. Without either, a read of every log on the blockchain spans at most 90 days or 648,000 blocks; a wider window returns 400, never a narrowed one.

- **Paging and order.** `size` becomes `page_size`: default 100 on both APIs, maximum 1000 on both (above it, 400). Follow `meta.next_url` until it is `null`, and do not stop on `count`. Rows are ordered on (`block_number`, `log_index`), newest first by default, as on Amberdata; `sort=asc` reverses it.

5 Will your values change?

Short answer

No. On the same contract and window, both APIs return the same logs. Block number, block hash, timestamp, transaction hash and index, log index, address, topics and data are equal once the formats below are converted. What changes is the shape of `data`.

- **Data is one string.** Amberdata splits the log data into 32-byte words without `0x`; Kaiko returns the bytes as one `0x`-prefixed string. `"0x"` + the words joined equals Kaiko `data`. To rebuild the words, drop `0x` and cut every 64 hex characters.
- **Data not a multiple of 32 bytes.** Some contracts emit data of arbitrary length. Amberdata then returns a shorter last word; Kaiko returns the bytes as emitted. The same rule applies: the last 64-character slice is shorter.
- **Empty data.** A log without data is `null` on Amberdata and `"0x"` on Kaiko.
- **Topics.** Same array, same order, same values: from none (an anonymous event) to four, the first being the event signature hash when the event is not anonymous.
- **Reorganisations.** Kaiko serves finalized blocks only, so a log is never removed after it is served, and the flag is not returned.
- **Transaction reads.** Amberdata rejects `transactionHash` on this endpoint (400, "parameter 'transactionHash' is not supported"). Kaiko serves every log of one transaction with `transaction_hash`, whichever contracts emitted them.

6 Event logs

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

What it gives you. One row per event log: the block and transaction that hold it, its position in the block, the contract that emitted it, its topics and its data, undecoded. Read the logs of one contract, of one transaction, or of the whole blockchain over a window, and narrow any of the first two to one event signature.

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

How to call it

Amberdata call	Kaiko query
`{hash}/logs`	`blockchain=ethereum&address={hash}`: the last 90 days, newest first
`{hash}/logs?topic={signature}`	`address={hash}&topic0={signature}`
`{hash}/logs?blockNumber={n}`	`address={hash}&start_block={n}&end_block={n+1}`
`{hash}/logs?startDate=...&endDate=...`	`address={hash}&start_time=...&end_time=...`
Not available	`transaction_hash={tx}`: every log of one transaction, no window
Not available	No `address`: every log of the blockchain in a window of at most 90 days or 648,000 blocks

Request parameters

Amberdata param	Kaiko param	Change	Notes
`hash` (path)	`address`	RENAMED	Optional query parameter: the contract that emitted the logs, one address, any letter case. A comma-separated list returns 400. Not with `transaction_hash` (400).
`x-amberdata-blockchain-id` (header)	`blockchain`	RENAMED	Required, `ethereum` (§4).
`topic`	`topic0`	RENAMED	Event signature hash, the first topic. Amberdata also matches the first topic only. Needs `address` or `transaction_hash` (400 otherwise). No other topic is a filter.
`blockNumber`	`start_block`, `end_block`	RENAMED	A block window, both bounds required, end exclusive: block `n` is `start_block=n&end_block=n+1`.
`startDate`	`start_time`	RENAMED	Inclusive, ISO 8601, millisecond precision at most (§4).
`endDate`	`end_time`	RENAMED	Exclusive; defaults to now.

Amberdata param	Kaiko param	Change	Notes
`transactionHash`	`transaction_hash`	NEW	Rejected by Amberdata on this endpoint. On Kaiko: every log of one transaction, any letter case. Takes no `address` and no window (400).
`size`	`page_size`	RENAMED	Logs per page, 1 to 1000, default 100.
`page`		REMOVED	Follow `meta.next_url`.
	`sort`	NEW	`asc` or `desc` on (`block_number` , `log_index`), default `desc` .
	`api_version`	NEW	Optional, `YYYY-MM-DD` ; a future date returns 400 `unsupported_api_version` .

Response data fields

Amberdata field	Kaiko field	Type	Change	Notes
	`blockchain`	string	NEW	Kaiko blockchain code, as requested.
`blockNumber`	`block_number`	integer	RENAMED	Height of the block that holds the log. Integer instead of string.
`blockHash`	`block_hash`	string	RENAMED	Hash of that block.
`timestamp`	`timestamp`	string	RENAMED	Block time, ISO 8601 UTC with milliseconds, instead of epoch milliseconds.
`transactionHash`	`transaction_hash`	string	RENAMED	Transaction that emitted the log.
`transactionIndex`	`transaction_index`	integer	RENAMED	Position of that transaction in its block, from 0.
`logIndex`	`log_index`	integer	RENAMED	Position of the log in its block, not in its transaction, from 0. With `block_number` it identifies the log.
`address`	`address`	string	IDENTICAL	Contract that emitted the log, lower case.
`topics`	`topics`	array of string	IDENTICAL	Indexed topics in emission order, 0 to 4 entries.
`data`	`data`	string	RENAMED	One `0x` -prefixed hex string instead of an array of 32-byte words; `"0x"` instead of `null` when empty (§5).
`removed`		boolean	REMOVED	Kaiko serves finalized blocks only (§5).

Before / after example: a contract's latest logs

The three newest logs of the CryptoKitties contract on Ethereum. The timestamp `1793606447000` is `2026-11-02T08:00:47.000Z` . The three Amberdata data words, joined, are the Kaiko data string. Both trimmed to the first log.

Amberdata

```
GET /blockchains/addresses/
    0x06012c8cf97bead5deae
    237070f9587f8e7a266d
    /logs?size=3
x-api-key: <your-key>
x-amberdata-blockchain-id: ethereum-mainnet
```

Kaiko

```
GET https://api.kaiko.io
    /blockchains/logs
    ?blockchain=ethereum
    &address=
    0x06012c8cf97bead5deae
    237070f9587f8e7a266d
    &page_size=3
X-Api-Key: <your-key>
```

Amberdata


```
{
  "status": 200,
  "title": "OK",
  "description": "Successful request",
  "payload": {
    "records": [ {
      "address":
        "0x06012c8cf97bead5deae237070f9587f
         8e7a266d",
      "blockHash":
        "0x39098de8151f5633e9b8114dd842acad
         7e0c7a7c5bf4abf65557c0280b081068",
      "blockNumber": "26325762",
      "data": [
        "0000000000000000000000072b2a07e
         a578cc92f9024be2501c7f295f227ec2",
        "000000000000000000000001e004978
         3f008a0085193e00003d00cd54003c71",
        "0000000000000000000000000000000
         0000000000000000000000003d05"
      ],
      "logIndex": 361,
      "removed": false,
      "timestamp": 1793606447000,
      "topics": [
        "0x8c5be1e5ebec7d5bd14f71427d1e84f3
         dd0314c0f7b2291e5b200ac8c7c3b925"
      ],
      "transactionHash":
        "0x4786c6ed9fd3f48ee6a42c2619297999
         a8bf473629a51f7915c2d9dbf1fdb2e2",
      "transactionIndex": 121
    }, ... ],
    "metadata": {
      "next": "https://api.amberdata.com
        /blockchains/addresses/...
        /logs?cursor=..."
    }
  }
}
```


Kaiko


```
{
  "data": [ {
    "blockchain": "ethereum",
    "block_number": 26325762,
    "block_hash":
      "0x39098de8151f5633e9b8114dd842acad
       7e0c7a7c5bf4abf65557c0280b081068",
    "timestamp": "2026-11-02T08:00:47.000Z",
    "transaction_hash":
      "0x4786c6ed9fd3f48ee6a42c2619297999
       a8bf473629a51f7915c2d9dbf1fdb2e2",
    "transaction_index": 121,
    "log_index": 361,
    "address":
      "0x06012c8cf97bead5deae237070f9587f
       8e7a266d",
    "topics": [
      "0x8c5be1e5ebec7d5bd14f71427d1e84f3
       dd0314c0f7b2291e5b200ac8c7c3b925"
    ],
    "data":
      "0x0000000000000000000000072b2a07e
       a578cc92f9024be2501c7f295f227ec2
       000000000000000000000001e004978
       3f008a0085193e00003d00cd54003c71
       0000000000000000000000000000000
       0000000000000000000000003d05"
  }, ... ],
  "meta": {
    "api_version": "2026-10-01",
    "count": 3,
    "next_url": "https://api.kaiko.io
      /blockchains/logs?...",
    "url": "..."
  }
}
```


Before / after example: one event signature

The newest `Transfer` log of the same contract, filtered on the event signature hash `0xddf252ad...b3ef`: Amberdata `topic`, Kaiko `topic0`. The timestamp `1793587295000` is `2026-11-02T02:41:35.000Z`. Envelopes trimmed, log shown in full.

Amberdata

```
GET /blockchains/addresses/
    0x06012c8cf97bead5deae
    237070f9587f8e7a266d
    /logs?size=1&topic=
    0xddf252ad1be2c89b69c2
    b068fc378daa952ba7f163
    c4a11628f55a4df523b3ef
x-api-key: <your-key>
x-amberdata-blockchain-id: ethereum-mainnet
```

Kaiko

```
GET https://api.kaiko.io
    /blockchains/logs
    ?blockchain=ethereum
    &address=
    0x06012c8cf97bead5deae
    237070f9587f8e7a266d
    &topic0=
    0xddf252ad1be2c89b69c2
    b068fc378daa952ba7f163
    c4a11628f55a4df523b3ef
    &page_size=1
X-Api-Key: <your-key>
```

Amberdata, payload.records[0]


```
{
  "address":
    "0x06012c8cf97bead5deae237070f9587f
     8e7a266d",
  "blockHash":
    "0x30ef2b8a008d5d082ff27dccf90ff877
     f860172642258ad45e46709981be57ff",
  "blockNumber": "26324169",
  "data": [
    "0000000000000000000000009fe5f02
     36f0ea5d930197dce254d77b04128075",
    "000000000000000000000000072b2a07e
     a578cc92f9024be2501c7f295f227ec2",
    "0000000000000000000000000000000000
     0000000000000000000000001c11ff"
  ],
  "logIndex": 136,
  "removed": false,
  "timestamp": 1793587295000,
  "topics": [
    "0xddf252ad1be2c89b69c2b068fc378daa
     952ba7f163c4a11628f55a4df523b3ef"
  ],
  "transactionHash":
    "0xc18fe455ecd4a9f9f352cc69d24ea863
     294911734000f491f8c3dbe071d83650",
  "transactionIndex": 74
}
```


Kaiko, data[0]


```
{
  "blockchain": "ethereum",
  "block_number": 26324169,
  "block_hash":
    "0x30ef2b8a008d5d082ff27dccf90ff877
     f860172642258ad45e46709981be57ff",
  "timestamp": "2026-11-02T02:41:35.000Z",
  "transaction_hash":
    "0xc18fe455ecd4a9f9f352cc69d24ea863
     294911734000f491f8c3dbe071d83650",
  "transaction_index": 74,
  "log_index": 136,
  "address":
    "0x06012c8cf97bead5deae237070f9587f
     8e7a266d",
  "topics": [
    "0xddf252ad1be2c89b69c2b068fc378daa
     952ba7f163c4a11628f55a4df523b3ef"
  ],
  "data":
    "0x0000000000000000000000009fe5f02
     36f0ea5d930197dce254d77b04128075
     000000000000000000000000072b2a07e
     a578cc92f9024be2501c7f295f227ec2
     0000000000000000000000000000000000
     0000000000000000000000001c11ff"
}
```