Kaiko

MIGRATION GUIDE

Supply

Amberdata → Kaiko

2026

www.kaiko.com

1 At a glance

What this guide covers. The two Amberdata supply endpoints and the Kaiko endpoint that replaces each one, plus a Kaiko endpoint with no Amberdata counterpart: assets ranked by market capitalisation. Kaiko computes total supply, circulating supply and market capitalisation per asset, from on-chain data collected every five minutes.

What changes for you

- The asset is a query parameter holding a Kaiko asset code. The Amberdata ARC identifier and the token contract address in the path both resolve to that code once, on the public reference data (§4).
- Send `interval=1d` for a daily series. Without it, `/blockchains/supply/assets` returns hourly rows and `/blockchains/supply/assets-per-blockchain` returns every five-minute collection, over the last 24 hours (§6, §7).
- Supply figures arrive decimal-adjusted, as JSON numbers: Amberdata's raw integer `"49295701138130357"` with 6 decimals reads as 49,295,701,138.13 USDC on Kaiko (§4).
- A Kaiko daily row is the median over the UTC day, labelled with the day's opening midnight. Amberdata's token supply row is the state at its timestamp; Kaiko returns that exact figure from its raw collections (§5, §7).

Endpoint map

Amberdata endpoint	Kaiko endpoint	How to call it	§
`blockchains/analytics/assets/{arcId}/marketcap`	`/blockchains/supply/assets`	`asset` + `interval=1d`	6
`blockchains/tokens/{hash}/supplies/historical`	`/blockchains/supply/assets-per-blockchain`	`asset` + `blockchain`	7
No Amberdata equivalent	`/blockchains/supply/rankings`	`at_time`, `interval` optional	8

Coverage & distribution

Data type: Total supply, circulating supply, market capitalisation and USD price per asset, across its blockchains or on one blockchain

Assets: Assets ranked by market capitalisation, up to 200, stablecoins included (§8)

Frequency: One collection about every five minutes per asset and blockchain

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

These apply to every endpoint in this guide. Each endpoint section adds its own path and parameters.

	Amberdata (today)	Kaiko (new)
Method	GET	GET

	Amberdata (today)	Kaiko (new)
Base URL	`https://api.amberdata.com`	`https://api.kaiko.io`
Path	`/blockchains/analytics/...` `/blockchains/tokens/...`	`/blockchains/supply/{dataset}`
Auth	Header `x-api-key`	Header `X-Api-Key`, your Kaiko key. Without it, or with a key in the query string, 401 `missing_api_key`.
Blockchain	Header `x-amberdata-blockchain-id` on token supplies, default `ethereum-mainnet`	Query `blockchain`, required on `assets-per-blockchain` only, short code (§4)
Version	Returned in `payload.metadata.api-version` on other endpoints	Optional query `api_version=YYYY-MM-DD`; current version `2026-10-01`, echoed in `meta.api_version`. A future date returns 400 `unsupported_api_version`.
Parameters	Unknown parameters ignored	A parameter the endpoint does not declare returns 400 `invalid_parameter` naming it

3 Response envelope & metadata

The fields around the data. The market cap endpoint returns objects; the token supply endpoint returns positional arrays described by `payload.metadata.columns`. Kaiko always returns an array of named objects under `data`.

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.data` (objects)	`data`	RENAMED	Market cap series (§6).
`payload.data` (arrays)	`data` (objects)	RENAMED	Token supply series (§7). Each position becomes a named key.
`payload.metadata.columns`		REMOVED	Keys are named on every row.
`payload.metadata.decimals`		REMOVED	Supply values arrive decimal-adjusted; no scaling needed.
`payload.metadata.startDate`, `endDate`	`meta.url`	RENAMED	The request as received, with `api_version` added.
	`meta.next_url`	NEW	Complete URL of the next page, with every default made explicit; `null` on the last page. Use it as returned.
	`meta.api_version`	NEW	Version the endpoint served.
	`meta.count`	NEW	Number of records in `data`.

- **No data in the window.** HTTP 404 `unknown_asset` on `assets` and `assets-per-blockchain`, for an unknown asset, for an asset not collected on the requested blockchain, and for a known asset with no row in the window.

The `detail` names the asset and the blockchain: `no supply for asset 'usdc' on blockchain 'bitcoin' in the window`.

- **Missing values.** Every key is always present. For an asset that reports no circulating supply, `circulating_supply`, `market_cap` and `price_usd` are `null` and `total_supply` is set (Canton instruments such as `cbtc`).
- **Errors.** Returned as `application/problem+json` with `status`, `title`, `detail` and a stable `code` such as `invalid_parameter`, `unknown_asset`, `not_entitled` or `rate_limited`. A 400 also lists each faulty parameter under `errors`. Branch on `code`, not on the text.

4 Asset, blockchain & naming conventions

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

Asset codes

Kaiko keys supply on its asset code, passed as `asset`, lower case (`asset=BTC` returns 400). Resolve each code once on the public reference data, `https://reference-data-api.kaiko.io/v1/assets`, which needs no key and returns the full catalogue in one call, each asset with its `code`, `name` and `addresses` (contract address per blockchain).

Amberdata identifier	How to find the Kaiko code
`arcId`, for example `AMB:BTC000000000`	Start from Amberdata's `arcSymbol` (`btc`) and confirm it with `/v1/assets?code=btc`. Kaiko has no ARC identifier.
`hash`, a token contract address	Find the asset whose `addresses` holds that address on that blockchain: `0xa0b86991...eb48` on `ethereum` is `usdc`. `asset` does not accept an address.

A code is not always the ticker. Examples: United Stables (U) is `u0`, M is `m2`, FF is `ff0`; `asset=u` returns 404 `unknown_asset`.

Blockchains

Amberdata	Kaiko code
`ethereum-mainnet`	`ethereum`
`polygon-mainnet`	`polygon`

Amberdata's token supply endpoint serves these two blockchains. Kaiko serves an asset on every blockchain its methodology collects, often many more than these two.

Conventions that change on every endpoint

- **Field names.** camelCase becomes snake_case: `circulatingSupply` → `circulating_supply`.
- **Time parameters.** `startDate` and `endDate` become `start_time` and `end_time`, ISO 8601 UTC with a time zone, at most millisecond precision (`2026-10-01T00:00:00.000Z`). A bare date (`2026-10-01`) or epoch value returns 400. Start inclusive, end exclusive. Without `end_time`, now; without `start_time`, 24 hours before `end_time`. No maximum range: long windows paginate. `timeFormat` is removed.
- **Timestamps.** `timestamp` is an ISO 8601 UTC string with milliseconds on every row: `2026-10-01T00:00:00Z` becomes `2026-10-01T00:00:00.000Z`, and epoch milliseconds `1790812800000` become the same string.
- **Paging.** `page_size` sets rows per page (default 100; maximum 1000, or 200 on rankings; above it, 400). Follow `meta.next_url` until it is `null`. `sort` takes `asc` or `desc`; Kaiko returns newest first by default, Amberdata oldest first.

- **Numbers.** Supply, market capitalisation and price are JSON numbers, decimal-adjusted, in units of the asset or in US dollars.

5 Will your values change?

> **Short answer**
>
> Total supply on one blockchain matches Amberdata at the same instant. Circulating supply and market capitalisation follow Kaiko's per-asset methodology and daily median.

- **How Kaiko computes supply.** Total supply is read on-chain from the asset's ledger or token contract on each blockchain, about every five minutes. Circulating supply is total supply minus the balances of addresses the asset's methodology excludes, such as burn addresses and issuer or locked holdings; the methodology is defined asset by asset. Market capitalisation is the circulating supply valued in US dollars, and `price_usd` is `market_cap` divided by `circulating_supply`.
- **Daily rows are labelled by bucket start.** A Kaiko row with `interval` covers `[timestamp, timestamp + interval)`, and its values are medians over the bucket; the newest bucket covers the data collected so far. Amberdata's market cap row labelled `2026-10-01T00:00:00Z` also covers 1 October: same timestamp, same day (§6).
- **Token supply rows are a state, not a median.** Amberdata's token supply row at `1790812800000` (1 October, 00:00 UTC) is the total supply at that instant. Kaiko's last raw collection before that instant holds the same figure; an `interval=1d` row is a median over the day and differs slightly. Use the raw collections to reproduce Amberdata's figures (§7).
- **Cross-blockchain totals.** `/blockchains/supply/assets` sums the asset over its blockchains: each row is the sum of the asset's per-blockchain rows. Compare Amberdata's single-contract token supply with §7.

6 Asset supply and market capitalisation

Replaces. `blockchains/analytics/assets/{arcId}/marketcap`.

What it gives you. Total supply, circulating supply, market capitalisation and USD price of one asset across all its blockchains, one row per bucket, from five minutes to one day.

	Amberdata (today)	Kaiko (new)
Path	`/blockchains/analytics/assets/{arcId}/marketcap`	`/blockchains/supply/assets`

Request parameters

Amberdata param	Kaiko param	Change	Notes
`arcId` (path)	`asset`	RENAMED	Required query parameter, one Kaiko asset code (§4). A comma-separated list returns 400.
`startDate`	`start_time`	RENAMED	ISO 8601 with time, inclusive. Amberdata default 7 days back; Kaiko 24 hours before `end_time`.
`endDate`	`end_time`	RENAMED	Exclusive on both. Default now.
Daily, fixed	`interval`	NEW	`5m`, `15m`, `1h`, `4h` or `1d`; default `1h`. Send `1d` for Amberdata's daily rows. Buckets align to UTC midnight.
	`sort`, `page_size`	NEW	See §4.

The window selects the buckets that open in `[start_time, end_time)`. `blockchain` is not accepted here (400); per-blockchain figures are §7.

Response data fields

Amberdata field	Kaiko field	Type	Change	Notes
`timestamp`	`timestamp`	string	RENAMED	Open of the bucket, now with milliseconds (§5).
`arcSymbol`	`asset`	string	RENAMED	Kaiko asset code.
`arcId`		string	REMOVED	No ARC identifier on Kaiko.
`arcName`		string	REMOVED	Asset `name` is on the reference data (§4).
`circulatingSupply`	`circulating_supply`	number	RENAMED	Median over the bucket, summed across blockchains, in units of the asset. `null` when not reported.
`marketCap`	`market_cap`	number	RENAMED	Median over the bucket, US dollars.
`priceUSD`	`price_usd`	number	RENAMED	`market_cap` / `circulating_supply`. `null` when either is `null` or zero.

Amberdata field	Kaiko field	Type	Change	Notes
	`total_supply`	number	NEW	Median over the bucket, summed across blockchains, in units of the asset.

Before / after example

BTC, the days of 1 and 2 October 2026, on both APIs. Both responses live.

Amberdata

```
GET /blockchains/analytics/assets
    /AMB:BTC000000000/marketcap
    ?startDate=2026-10-01
    &endDate=2026-10-03
x-api-key: <your-key>
```

Kaiko

```
GET https://api.kaiko.io
    /blockchains/supply/assets
    ?asset=btc
    &interval=1d
    &start_time=2026-10-01T00:00:00.000Z
    &end_time=2026-10-03T00:00:00.000Z
    &sort=asc
X-Api-Key: <your-key>
```

Amberdata


```
{
  "status": 200,
  "title": "OK",
  "description": "Successful request",
  "payload": {
    "data": [
      {
        "arcId": "AMB:BTC000000000",
        "arcName": "Bitcoin",
        "arcSymbol": "btc",
        "circulatingSupply": ...,
        "marketCap": ...,
        "priceUSD": ...,
        "timestamp": "2026-10-01T00:00:00Z"
      },
      {
        "arcId": "AMB:BTC000000000",
        "arcName": "Bitcoin",
        "arcSymbol": "btc",
        "circulatingSupply": ...,
        "marketCap": ...,
        "priceUSD": ...,
        "timestamp": "2026-10-02T00:00:00Z"
      }
    ],
    "metadata": {}
  }
}
```


Kaiko


```
{
  "data": [
    {
      "asset": "btc",
      "circulating_supply": 20092010.9375,
      "market_cap": 1685249576217.1875,
      "price_usd": 83876.60057818379,
      "timestamp":
        "2026-10-01T00:00:00.000Z",
      "total_supply": 20092010.9375
    },
    {
      "asset": "btc",
      "circulating_supply": 20092453.125,
      "market_cap": 1715620006633.5005,
      "price_usd": 85386.2888697669,
      "timestamp":
        "2026-10-02T00:00:00.000Z",
      "total_supply": 20092453.125
    }
  ],
  "meta": {
    "api_version": "2026-10-01",
    "count": 2,
    "next_url": null,
    "url": "https://api.kaiko.io/..."
  }
}
```


Same asset, same two days, same labels. Kaiko's figures are medians over the day.

7 Asset supply per blockchain

Replaces. `blockchains/tokens/{hash}/supplies/historical`.

What it gives you. Total supply, circulating supply and market capitalisation of one asset on one blockchain: every collection as made, about every five minutes, or medians per bucket with `interval`.

	Amberdata (today)	Kaiko (new)
Path	`/blockchains/tokens/{hash}/supplies/historical`	`/blockchains/supply/assets-per-blockchain`

Request parameters

Amberdata param	Kaiko param	Change	Notes
`hash` (path)	`asset`	RENAMED	Required. The Kaiko asset code of the contract (§4), not the address.
`x-amberdata-blockchain-id` (header)	`blockchain`	RENAMED	Required query parameter, one short code (§4).
`startDate` / `endDate`	`start_time` / `end_time`	RENAMED	ISO 8601, start inclusive, end exclusive. Amberdata returns the row at `endDate` too. Amberdata caps a call at 6 months daily or 30 days hourly; Kaiko has no cap and paginates.
`timeInterval`	`interval`	RENAMED	Omitted: every collection. `5m`, `15m`, `1h`, `4h`, `1d`: medians per bucket. `days` and `hours` map to `1d` and `1h`.
`timeFormat`		REMOVED	Always ISO 8601.
	`sort`, `page_size`	NEW	See §4.

Reading the supply at an instant. Send `end_time` set to the instant and `page_size=1`: the newest-first default returns the last collection before it. This reproduces Amberdata's daily figures.

Response data fields

Amberdata column	Kaiko field	Type	Change	Notes
`timestamp`	`timestamp`	string	RENAMED	Epoch ms → ISO 8601. Time of the collection, or the open of the bucket with `interval`.
`totalSupply`	`total_supply`	number	RENAMED	Raw integer string → decimal-adjusted number, in units of the asset.
`circulatingSupply`	`circulating_supply`	number	RENAMED	Decimal-adjusted. Kaiko methodology (§5). `null` when not reported.

Amberdata column	Kaiko field	Type	Change	Notes
`numHolders`		integer	REMOVED	No holder count series. `/blockchains/token-holders` lists the holders of a token as of the newest snapshot.
	`asset`, `blockchain`	string	NEW	On every row.
	`market_cap`	number	NEW	Circulating supply on the blockchain in US dollars. For the price, use `price_usd` of §6.

Before / after example

USDC on Ethereum at 1 October 2026, 00:00 UTC, on both APIs. Amberdata response live, trimmed to its first row; Kaiko response live, the last collection before that instant.

Amberdata

```
GET /blockchains/tokens
    /0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48
    /supplies/historical
    ?startDate=2026-10-01
    &endDate=2026-10-03
    &timeInterval=days
x-api-key: <your-key>
x-amberdata-blockchain-id: ethereum-mainnet
```

Kaiko

```
GET https://api.kaiko.io
    /blockchains/supply
    /assets-per-blockchain
    ?asset=usdc
    &blockchain=ethereum
    &end_time=2026-10-01T00:00:00.000Z
    &page_size=1
X-Api-Key: <your-key>
```

Amberdata

```
{
  "status": 200,
  "title": "OK",
  "description": "Successful request",
  "payload": {
    "data": [
      [
        1790812800000,
        1508423,
        "...",
        "4929570113813035..."
      ],
      ...
    ],
    "metadata": {
      "columns": [
        "timestamp",
        "numHolders",
        "circulatingSupply",
        "totalSupply"
      ],
      "startDate": 1790812800000,
      "endDate": 1790985600000,
      "decimals": "6"
    }
  }
}
```

Kaiko

```
{
  "data": [
    {
      "asset": "usdc",
      "blockchain": "ethereum",
      "timestamp":
        "2026-09-30T23:59:36.670Z",
      "total_supply": 49295701138.13035...
    }
  ],
  "meta": {
    "api_version": "2026-10-01",
    "count": 1,
    "next_url": "https://api.kaiko.io/...",
    "url": "https://api.kaiko.io/..."
  }
}
```

Total supply matches.

8 Supply rankings NEW

Replaces. No Amberdata endpoint. Amberdata's supply endpoints return one asset per call; this endpoint returns every ranked asset in one read.

What it gives you. The assets ranked by market capitalisation at a point in time, largest first, with their total and circulating supply. Ranks stop at 200.

	Amberdata (today)	Kaiko (new)
Path	No equivalent	`/blockchains/supply/rankings`

Request parameters

Kaiko param	Required	Notes
`at_time`	No	The point the ranking is as of, ISO 8601 UTC. Default now; a future time returns 400. Rounded down to the start of its UTC day for `1d`, `7d` and `30d`, of its hour for `1h` and `4h`, of its minute for `5m` and `15m`.
`interval`	No	Length of the window before the rounded `at_time` over which the median market capitalisation is taken: `5m`, `15m`, `1h`, `4h`, `1d`, `7d` or `30d`. Default `1d`.
`page_size`	No	Ranks per page, default 100, maximum 200. Follow `meta.next_url` for the next ranks.

Only closed buckets are ranked, so the window is `[rounded at_time − interval, rounded at_time)`. With the defaults, the ranking covers yesterday as a whole UTC day. `at_time=2026-10-01T13:27:00.000Z` ranks the day of 30 September and labels every row `2026-10-01T00:00:00.000Z`. There is no `asset`, `start_time` or `sort` parameter (400).

Response data fields

Kaiko field	Type	Notes
`timestamp`	string	The rounded `at_time`, ISO 8601 with milliseconds, the same on every row.
`rank`	integer	1 for the largest market capitalisation.
`asset`	string	Kaiko asset code.
`market_cap`	number	Median over the window, summed across blockchains, US dollars: the ranking key.
`circulating_supply`	number	Median over the window, in units of the asset.
`total_supply`	number	Median over the window, in units of the asset.

Kaiko example

The ranking as of 1 October 2026, over the day of 30 September. Each `market_cap` equals the asset's `interval=1d` row on §6 for the same day.

Kaiko request

```
GET https://api.kaiko.io
    /blockchains/supply/rankings
    ?at_time=2026-10-01T00:00:00.000Z
    &page_size=3
X-Api-Key: <your-key>
```

Kaiko response


```
{
  "data": [
    {
      "asset": "btc",
      "circulating_supply": 20091568.75,
      "market_cap": 1681277976289.4456,
      "rank": 1,
      "timestamp":
        "2026-10-01T00:00:00.000Z",
      "total_supply": 20091568.75
    },
    {
      "asset": "eth",
      "circulating_supply":
        122092940.74905182,
      "market_cap": 326984970944.14685,
      "rank": 2,
      "timestamp":
        "2026-10-01T00:00:00.000Z",
      "total_supply": 122092940.74905182
    },
    {
      "asset": "usdt",
      "circulating_supply":
        183961199194.52066,
      "market_cap": 183865043414.85852,
      "rank": 3,
      "timestamp":
        "2026-10-01T00:00:00.000Z",
      "total_supply": 190675605890.59384
    }
  ],
  "meta": {
    "api_version": "2026-10-01",
    "count": 3,
    "next_url": "https://api.kaiko.io/...",
    "url": "https://api.kaiko.io/..."
  }
}
```