Trendlink API v2.5

This is an informal description of the Trendlink API calls and its payload. Depending on your specific agreements with Trendlink some endpoints and fields in returned data might not be accessible.

Technical notes:

- Parameter types are defined according to the JSON schema definition: https://json-schema.org/understanding-json-schema/reference/index.html
- Timestamps are formatted according to ISO-8601 with `UTC` as time zone
- For general access and activation of customer specific features, an URL-parameter `token` with a corresponding value has to be set.

Changes

v2.5 - 2022-06-24

- Added `token` authentication and authorization

v2.5-preview - 2022-06-10

- Added `/trends/<trend-id>` Endpoint
- Added `nice` attribute to `instrument` of Trend objects
- Added `nice` attribute to `instrument` of Trend objects
- Added `indexUpdated` attribute to Trend objects indicating when the `index` data was updated (Only included if `index` is shown)

v2.5-preview - 2022-06-01

- Added `kgv`, `kuv` as financial figures to Trend objects
- Added `index` for generating graphs to Trend objects

v2.4-preview - 2022-05-05

- Improved output of text fields containing HTML when called with URL parameter `html=false`.
- Improved documentation for returned data
- Fixed main trend in trend-paths

v2.3-preview - 2022-04-20

- Added `/etp` endpoint

- Additional dimensions and **JPG** type for trend images. An images `dimension` value now contains the aspect ration of an image, not the exact pixel size. The `density` field of an image is now always `1` as we do not deliver separate images for specific Hi-DPI devices any more.
- New **classification** attribute for instruments
- New **related** attribute for trends
- New **nice5** parameter for instruments in trends

v2.2 - 2022-01-14

- Added **/trends/curated** endpoint

v2.1 - 2020-11-20

- Added **trendName** to [Analysis](#) objects
- Added **/clouds** endpoint

v2.0 - 2020-08-13

- Initial state of new JSON API for the Trendlink universe

GET /v2/analyses

E.g.: https://api.trendlink.com/v2/analyses

An array of Analysis.

- Analyses are sorted by age, descending
- Only analyses younger than 12 months are included

Parameters:

- `html`: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- `field`: query, optional, multiple, type `string`. By default, all fields of an analysis are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/analyses?field=id&field=title&field=teaser&field=images
- `lang`: query, optional, type `string`, default: `de`. The content of text fields like `description` or `teaser` in the requested language. Falls back to default if no options are available.

GET /v2/analyses/latest/<count:integer>

E.g.: https://api.trendlink.com/v2/analyses/latest/5

The same as /v2/analyses but limited to a certain amount.

- No guarantees that analyses older than 12 months are included
- Can include fewer analyses than requested if the parameter valued exceeds the maximum number of available analyses

Parameters:

- `count`: url, mandatory, type `integer > 0`. The number of analyses included.
- `html`: query, optional, type: `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- `field`: query, optional, multiple, type `string`. By default, all fields of an analysis are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/analyses/latest/5? field=id&field=title&field=teaser&field=images
- `lang`: query, optional, type `string`, default: `de`. The content of text fields like `description` or `teaser` in the requested language. Falls back to default if no options are available.

GET /v2/analysis/<string:id>

E.g.: https://api.trendlink.com/v2/analysis/a129

Returns a single analysis.

- If the id is unknown or the analysis not available anymore, a corresponding message with a HTTP status code `404` is returned

Parameters:

- **id**: url, mandatory, type `string`
- **html**: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- **field**: query, optional, multiple, type `string`. By default, all fields of an analysis are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/analysis/a129?field=id&field=title&field=teaser&field=images
- **lang**: query, optional, type `string`, default: `de`. The content of text fields like `description` or `teaser` in the requested language. Falls back to default if no options are available.

GET /v2/trends

E.g.: https://api.trendlink.com/v2/trends

An array of Trend.

Parameters:

- `nice5`: query, optional, type `boolean`, default: `false`. If `true`, trend objects array attribute `instruments` is shortened down to a maximum of 5 instruments being the most pivotal to the trend.
- `related`: query, optional, type `boolean`, default: `false`. If `true`, trend objects carry attribute `related` containing an array of ids of related trends.
- `figures`: query, optional, type `boolean`, default: `false`. If `true`, **requires extra permission**, trend objects carry attributes `kgv` and `kuv` containing financial figures.
- `index`: query, optional, type `boolean`, default: `false`. If `true`, **requires extra permission**, trend objects carry attribute `index` containing an array of date and numerical/Java-double pairs in chronological ascending order. Suitable for drawing graphs.
- `html`: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- `lang`: query, optional, type `string`, default: `de`. The content of text fields like `description` in the requested language. Falls back to default if no options are available.
- `field`: query, optional, multiple, type `string`. By default, all fields of a trend are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/trends?field=id&field=name&field=description&field=images

GET /v2/trends/curated

E.g.: https://api.trendlink.com/v2/trends/curated

The same as /v2/trends but containing trends manually curated by Trendlink editors. On top of the fields of Trend it contains the field `weighting`.

An array of Trend.

Parameters:

- **`nice5`**: query, optional, type `boolean`, default: `false`. If `true`, trend objects array attribute `instruments` is shortened down to a maximum of 5 instruments being the most pivotal to the trend.
- **`related`**: query, optional, type `boolean`, default: `false`. If `true`, trend objects carry attribute `related` containing an array of ids of related trends.
- **`figures`**: query, optional, type `boolean`, default: `false`. If `true`, **requires extra permission**, trend objects carry attributes `kgv` and `kuv` containing financial figures.
- **`index`**: query, optional, type `boolean`, default: `false`. If `true`, **requires extra permission**, trend objects carry attribute `index` containing an array of date and numerical/Java-double pairs in chronological ascending order. Suitable for drawing graphs.
- **`html`**: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- **`lang`**: query, optional, type `string`, default: `de`. The content of text fields like `description` in the requested language. Falls back to default if no options are available.
- **`field`**: query, optional, multiple, type `string`. By default, all fields of a trend are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/trends/curated?field=id&field=name&field=description&field=images

GET /v2/trends/<string:id>

E.g.: https://api.trendlink.com/v2/trends/t656

The same as /v2/trends but returning only a single trend.

An object of Trend.

Parameters:

- **nice5**: query, optional, type `boolean`, default: `false`. If `true`, trend objects array attribute **instruments** is shortened down to a maximum of 5 instruments being the most pivotal to the trend.
- **related**: query, optional, type `boolean`, default: `false`. If `true`, trend objects carry attribute **related** containing an array of ids of related trends.
- **figures**: query, optional, type `boolean`, default: `false`. If `true`, **requires extra permission**, trend objects carry attributes **kgv** and **kuv** containing financial figures.
- **index**: query, optional, type `boolean`, default: `false`. If `true`, **requires extra permission**, trend objects carry attribute **index** containing an array of date and numerical/Java-double pairs in chronological ascending order. Suitable for drawing graphs.
- **html**: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- **lang**: query, optional, type `string`, default: `de`. The content of text fields like `description` in the requested language. Falls back to default if no options are available.
- **field**: query, optional, multiple, type `string`. By default, all fields of a trend are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/trends/t656?field=id&field=name&field=description&field=images

GET /v2/instruments

E.g.: https://api.trendlink.com/v2/instruments

An array of Instrument including all shares, ETFs, ETCs, etc…

Parameters:

- **classification**: query, optional, type `boolean` default: `false`. If `true`, contains classification of instrument, currently one of: `share`, `warrant`, `fund`, `etf`, `etn`, `etc`.
- **html**: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- **lang**: query, optional, type `string`, default: `de`. The content of text fields like `description` in the requested language. Falls back to default if no options are available.
- **field**: query, optional, multiple, type `string`. By default, all fields of an instrument are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/instruments?field=id&field=isin&field=name

GET /v2/shares

E.g.: https://api.trendlink.com/v2/shares

An array of Instrument only including shares.

Parameters:

- **classification**: query, optional, type `boolean` default: `false`. If `true`, contains classification of instrument, currently one of: `share`, `warrant`, `fund`, `etf`, `etn`, etc.
- **html**: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- **lang**: query, optional, type `string`, default: `de`. The content of text fields like `description` in the requested language. Falls back to default if no options are available.
- **field**: query, optional, multiple, type `string`. By default, all fields of an instrument are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/shares?field=id&field=isin&field=name

GET /v2/etps

E.g.: https://api.trendlink.com/v2/etps

An array of Instrument only including ETFs, ETNs, ETCs.

Parameters:

- **classification**: query, optional, type `boolean` default: `false`. If `true`, contains classification of instrument, currently one of: `share`, `warrant`, `fund`, `etf`, `etn`, `etc`.
- **html**: query, optional, type `boolean`, default: `true`. If `false`, all fields that contain HTML markup are stripped of it
- **lang**: query, optional, type `string`, default: `de`. The content of text fields like `description` in the requested language. Falls back to default if no options are available.
- **field**: query, optional, multiple, type `string`. By default, all fields of an instrument are included. You can reduce the payload by specifying the relevant fields. E.g.: https://api.trendlink.com/v2/etps?field=id&field=isin&field=name

GET /v2/clouds

E.g.: https://api.trendlink.com/v2/clouds

An array of Cloud including trends and instruments referenced by their id and with weighting.

Object: Analysis

Notes:

- An **Analysis main** value contains **\n** signalling line breaks when the URL parameter **html** is set to **true**
- The **trend** value refers to the ids of trends in https://api.trendlink.com/v2/trends.
- The **instruments** entries are referenced by their **ISIN** not the internal id like **i438** so that analyses stay useful even if an instrument ceases to exist.
- An **images dimension** field contains the aspect ratio (**x**- and **y**-axis) of the image.
- An **images densitiy** field can be currently ignored as it always contains **1**. It still exists for legacy reasons.

```
{
  "id": "a129",
  "timestamp": "2020-07-03T08:17:55.000+00:00",
  "title": "Essenslieferungen: Ändern wir unsere Gewohnheiten?",
  "teaser": "Die Corona-Pandemie befeuerte das Geschäft von Essenslieferanten und Kurierdiensten. [... shortened fo
  "main": "<p>In den vergangenen Monaten suchten Investoren [ISIN:DE000A161408] vermehrt in [... shortened for clar
  "trend": "t985",
  "trendName": "Food Delivery",
  "images": [
    {
      "dimension": "2to1",
      "density": 1,
      "url": "https://www.trendlink.com/ext/img/trends/536/Food_Delivery-2to1-w1.jpg"
    },
    {
      "dimension": "4to3",
      "density": 1,
      "url": "https://www.trendlink.com/ext/img/trends/536/Food_Delivery-4to3-w1.jpg"
    }
  ],
  "instruments": [
    {
      "isin": "US90353T1007"
    },
    {
      "isin": "DE000A161408"
    },
    {
      "isin": "US09523Q2003"
    }
```

```json
    ],
    "relatedTrends": [
      {
        "id": "t1",
        "name": "Osteuropa"
      }
    ]
}
```

Object: Trend

Notes:

- A **trend description** value contains **\n** signalling line breaks when the URL parameter **html** is set to **true**
- The **instruments** entries are referenced by their **ISIN** not the internal id like **i438** so that analyses stay useful even if an instrument ceases to exist.
- The **instruments weighting** field refers to the overall importance of an instrument to the trend in terms of financial value. The value is one of **high**, **normal** and **low**.
- The **instruments nice** field refers to the importance of an instrument to the trend in terms of thematic relevance. The value is one of **true**, or **false**.
- An **images dimension** field contains the aspect ratio (**x**- and **y**-axis) of the image.
- An **images densitiy** field can be currently ignored as it always contains **1**. It still exists for legacy reasons.
- The **id** field of **children**, **parents**, **related**, and **trendPaths/path** refer to the ids of trends in https://api.trendlink.com/v2/trends.
- The **weighting** field, which only is delivered via https://api.trendlink.com/v2/trends/curated, refers to the importance of the trend compared to others in the same API response. Its value can be one of **low**, **normal** or **high**.
- A **trendPaths type** field refers to the path to the root trends of the hierarchy. If there is more than one path, the most important one is set to **main**. If there is only one path or it is not the main path it is set to **aux**.
- The **index** field contains pairs of date and tick values of the trend´s performance (usually needed for charting).
- The **indexUpdated** field contains the timestamp of when the **index** was last calculated. This field is only shown if **index** is shown.

```
{
  "id": "t1",
  "name": "Osteuropa",
  "description": "Im statistischen Sinne der Vereinten Nationen umfasst das Östliche Europa: Bulgarien, Moldawien,
  "synonyms": [
    "Emerging Markets",
    "BRIC",
    "GuS",
    "Rohstoffe",
    "Kohle",
    "Uran",
    "Polen",
    "Ukraine",
    "Türkei",
    "Estland",
```

```json
    "Litauen",
    "Baltik",
    "Tschechisch",
    "Ungarn",
    "Slowakei",
    "Lettland"
  ],
  "images": [
    {
      "dimension": "370x238",
      "density": 1,
      "url": "https://www.trendlink.com/ext/img/trends/1/Osteuropa-370x238-w.png"
    },
    {
      "dimension": "370x238",
      "density": 2,
      "url": "https://www.trendlink.com/ext/img/trends/1/Osteuropa-370x238-w@2x.png"
    }
  ],
  "instruments": [
    {
      "isin": "US90353T1007",
      "weighting": "normal",
      "nice": true
    },
    {
      "isin": "DE000A161408",
      "weighting": "normal",
      "nice": false
    },
    {
      "isin": "US09523Q2003",
      "weighting": "high",
      "nice": false
    }
  ],
  "children": [
    {
      "id": "t80"
    },
    {
      "id": "t150"
    }
  ],
```

```json
      "parents": [
        {
          "id": "t115"
        }
      ],
      "related": [
        {
          "id":"t715"
        },
        {
          "id":"t78"
        }
      ],
      "trendPaths": [
        {
          "type": "main",
          "path": ["t115", "t1"]
        },
        {
          "type": "aux",
          "path": ["t115", "t10"]
        }
      ],
      "kgv": 33.6,
      "kuv": 4.7,
      "indexUpdated": "2022-06-06T06:40:00Z",
      "index": [{"y":100.0,"x":"2017-06-02"},{"y":100.0,"x":"2017-06-03"}, ... shortened for clarity ... ]
}
```

Object: Instrument

Notes:

- The **classification** field refers to the type of instrument and its value is one of **share**, **fund**, **etf**, **etn**, **etc** or **warrant**.

```
{
  "id": "i1",
  "isin": "PLAGORA00067",
  "name": "AGORA GDR",
  "description": "Bedeutendes polnisches Medienunternehmen, Herausgeber von Tageszeitungen, Zeitschriften sowie Rad
  "classification": "share"
}
```

Object: Cloud

Notes:

- The top level **type** field can have the values **Instrument** or **Trend** and refers to the relevant trend or instrument via the **id** field.
- **weightingLevels** shows the possible range of values in the **entries.weighting** field (starting from **1**).

```json
{
  "type": "Instrument",
  "id": "i21",
  "weightingLevels": 4,
  "entries": [
    {
      "type": "Trend",
      "id": "t298",
      "weighting": 1
    },
    {
      "type": "Instrument",
      "id": "i5565",
      "weighting": 2
    },
    {
      "type": "Instrument",
      "id": "i5450",
      "weighting": 2
    }
  ]
}
```