

Title	Solactive Index Data API
Date	July 2019
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## Solactive Index Data API

The REST based Index Data API offers access to index core data, constituents, performance data and historical index values of your indices for integration into your web-based applications or internal client/server applications.

### Developer Guide

- All API calls must be issued as HTTP GET requests
- All parameters must be URL-encoded
- All models returned by the API are JSON-serialized

### API Rate Limits

To maintain optimum performance and ensure that the Solactive Index Data API is available to all of our customers, we balance transaction loads by imposing limits. When a call exceeds a request limit, an error is returned.

#### Limit

Clients are limited to 3 request per second for each ISIN.

#### Hitting the Rate Limit

Your application will receive a HTTP 503 response from the Solactive Index Data API when a request is not fulfilled due to reaching the rate limit.

#### Caching

Store API responses in your application or on your site if you expect a lot of use. For example, don't try to call the Solactive Index Data API on every page load of your website landing page. Instead, call the API infrequently and load the response into a local cache. When users hit your website load the cached version of the results.

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## Models

The following models are currently returned by the API.

### Index

Field	Type	Example Value
id	IndexId	DE0008469024
name	String	F.A.Z. Index
isin	String	DE0008469024
wkn	String	846902
bloombergTicker	String	FAZIA Index
description	Map<LanguageCode, Description>	"DE" => "German Description", "EN" => "English Description"
family	String	DEFAULT_DEFAULT

Example JSON:

```
{
  "id" : " DE0008469024",
  "name" : "F.A.Z. Index",
  "isin" : "DE0008469024",
  "wkn" : "846902",
  "bloombergTicker" : "FAZIA Index",
  "description": {
    "DE" : "German Description",
    "EN" : "English Description"
  },
  "family" : "DEFAULT_DEFAULT"
}
```

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## IndexConstituent

Field	Type	Example Value
indexId	IndexId	DE0008469024
name	String	EXAMPLE COMPANY, LTD
isin	String	846902
bloombergTicker	String	EXAMPLE COMP
nosh	String	1047200
totalShares	String	8020000
indexShares	String	482910
couponValue	String	1.5 (null for constituents that are not bonds)
maturity	Date	1662933600000 (null for constituents that are not bonds)
weighting	String	1.0028423931192978 (null for constituents that are not bonds)

### Example JSON:

```
{
  "indexId": "DE000SLA44G9",
  "name": "WELLS FARGO & COMPAN",
  "isin": "XS1288903278",
  "bloombergTicker": "UV7713430 Corp",
  "nosh": "",
  "totalShares": "",
  "indexShares": null,
  "couponValue": "1.5",
  "maturity": 1662933600000,
  "weighting": "1.0028423931192978"
},
```

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## PerformanceData

Field	Type	Example Value
indexId	IndexId	DE0008469024
timestamp	Date	1361208071 (UNIX timestamp in milli secs, CET/CEST)
level	String	100.00
levelHigh	String	102.23
levelLow	String	99.29
yearLevelHigh	String	113.49
yearLevelLow	String	97.48
lastClosingLevel	String	99.27
differencePercentage	String	0.74
differenceAbsolute	String	0.73

### Example JSON:

```
{
  "indexId" : "DE0008469024",
  "timestamp" : 1523893249029,
  "level" : "2463.71",
  "levelHigh" : "2482.31",
  "levelLow" : "2460.92",
  "yearLevelHigh" : "2687.00",
  "yearLevelLow" : "2350.98",
  "lastClosingLevel" : "2475.48",
  "differencePercentage" : "-0.48",
  "differenceAbsolute" : "-11.77"
}
```

## IndexValue

Field	Type	Example Value
indexId	IndexId	DE0008469024
timestamp	Date	1557481029258 (UNIX timestamp in milli secs, CET/CEST)
value	String	100.00

### Example JSON:

```
{
  "indexId": " DE0008469024",
  "timestamp": 1557481029258,
  "value": "100.00"
}
```

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## API Methods

### Definition

- Requests for different kind of index information
- Based on your own client id and the index ISIN

### Short manual

Below you find examples for the different requests. Note that you have to fill the following placeholders:

- {ENDPOINT}: This is the website you would like to apply. In this case it is clients.solactive.com
- {CLIENTID}: This is the customize ID we created for you
- indexId: enter here the indexId (aka ISIN) of the index you would like to request

## Index

Returns an **Index** object for the given Identifier.

### Parameters

Parameter	Type	Example Value
indexId	String	DE0008469024

### Example URL:

<https://{ENDPOINT}/api/rest/v1/indices/{CLIENTID}/{DE0008469024}/index>

### Returns:

```
{
  "id": " DE0008469024",
  "name": "F.A.Z. Index",
  "isin" : "DE0008469024",
  "wkn": "846902",
  "bloombergTicker": "FAZIA Index",
  "description": {
    "DE": "German Description",
    "EN": "English Description"
  },
  "family" : "DEFAULT_DEFAULT"
}
```

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## Index Constituents

Returns a List of **IndexConstituent** objects for the given Identifier.

### Parameters

Parameter	Type	Example Value
indexId	String	DE0008469024

### Example URL:

<https://{ENDPOINT}/api/rest/v1/indices/{CLIENTID}/{DE0008469024}/constituents>

### Returns:

```
[
  {
    "indexId": " DE0008469024",
    "name": "EXAMPLE COMPANY, LTD ",
    "isin": "DE0000EXAMPLE",
    "bloombergTicker": "EXAMPLE COMP ",
    "nosh": "104720",
    "totalShares": "8020000",
    "indexShares": "482910",
    "couponValue" : null,
    "maturity" : null,
    "weighting" : null
  },
  {
    "indexId": " DE0008469024",
    "name": "EXAMPLE COMPANY II, LTD ",
    "isin": "DE0000EXAMPLEII",
    "bloombergTicker": "EXAMPLE II COMP ",
    "nosh": "104720",
    "totalShares": "8020000",
    "indexShares": "482910",
    "couponValue" : null,
    "maturity" : null,
    "weighting" : null
  }
]
```

Remark: CouponValue, maturity, and weighting are returned as null as these constituents are set up as stocks in the platform. Only instruments which are set up as bonds receives a result there.

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## Performance Data

Returns an **IndexPerformanceData** object for the given Identifier. Index needs to be calculated currently.

### Parameters

Parameter	Type	Example Value
indexId	String	DE0008469024

### Example URL:

<https://{ENDPOINT}/api/rest/v1/indices/{CLIENTID}/{DE0008469024}/performance>

### Returns:

```
{
  "indexId" : "DE0008469024",
  "timestamp" : 1523893249029,
  "level" : "2463.71",
  "levelHigh" : "2482.31",
  "levelLow" : "2460.92",
  "yearLevelHigh" : "2687.00",
  "yearLevelLow" : "2350.98",
  "lastClosingLevel" : "2475.48",
  "differencePercentage" : "-0.48",
  "differenceAbsolute" : "-11.77"
}
```



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## getIndexHistory

Returns a List of **IndexValue** objects for the given Identifier.

### Parameters

Parameter	Type	Example Value
indexId	String	DE0008469024
from	Date	1361208000000 (UNIX timestamp in milli secs, CET/CEST)
to	Date	1361208898000 (UNIX timestamp in milli secs, CET/CEST)
resolution	Resolution	DAY, MINUTE, MAX

### resolution != Day

Resolution *DAY* give you data over several days.

Please note, if resolution != Day requires from and to, to be maximum a day apart.

i.e.: (to - from) < 1d = 1000 \* 60 \* 60 \* 24

### Example URL:

<https://{ENDPOINT}/api/rest/v1/indices/{CLIENTID}/DE000SLA7VC0/history?from=1548284399500&to=1548370800500>

### &dontResetClosingTime=true

If you use

[https://clients.solactive.com/api/rest/v1/indices/\[CLIENTID\]/DE000SLA72S5/history?from=1546300800000&to=1561068000000&resolution=DAY](https://clients.solactive.com/api/rest/v1/indices/[CLIENTID]/DE000SLA72S5/history?from=1546300800000&to=1561068000000&resolution=DAY)

The timestamp will be converted to local time midnight:

GMT: Wednesday, June 19, 2019 10:00:00 PM

**\*Your time zone: Thursday, \*\*June 20, 2019\* 12:00:00 AM GMT+02:00 DST**

If you would like to see the close date, you can add this parameter to the call:

&dontResetClosingTime=true

Like

this: [https://clients.solactive.com/api/rest/v1/indices/\[CLIENTID\]/DE000SLA72S5/history?from=1546300800000&to=1561068000000&resolution=DAY&dontResetClosingTime=true](https://clients.solactive.com/api/rest/v1/indices/[CLIENTID]/DE000SLA72S5/history?from=1546300800000&to=1561068000000&resolution=DAY&dontResetClosingTime=true)

In other words:

dontResetClosingTime=false → DO reset closing time → set it to midnight

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**Example URL resolution = MAX:**

<https://{ENDPOINT}/api/rest/v1/indices/{CLIENTID}/{DE0008469024}/history?from=13612080000&to=136120898000&resolution=MAX>

**Returns:**

```
[
  {
    "indexId": " DE0008469024",
    "timestamp": 1361208071,
    "value": "100.00"
  },
  {
    "indexId": " DE0008469024",
    "timestamp": 1361209071,
    "value": "101.08"
  },
  {
    "indexId": " DE0008469024",
    "timestamp": 1361211071,
    "value": "102.47"
  },
  {
    "indexId": " DE0008469024",
    "timestamp": 1361278071,
    "value": "104.88"
  },
  {
    "indexId": " DE0008469024",
    "timestamp": 1361203471,
    "value": "102.38"
  }
]
```