

Junar API

Current version of the API is 1.0

The API supports HTTP/REST protocols and it is organized in the following modules:

1. Methods for searching dashboards and data streams
2. Methods for accessing a particular dashboard or data stream object properties
3. Methods for consuming data streams

Error handling

For all our methods these are the errors:

- 400 -> Bad Request
- 403 -> Forbidden
- 404 -> Not Found
- 405 -> Method Not Allowed
- 500 -> Internal Server Error

All the methods returns its results in JSON format.

Methods for searching

Search Data Streams

Returns the data streams matching the query criteria in their titles, descriptions and tags. The result is provided as an array of data stream objects.

URL

<http://apisandbox.juniar.com/datastreams/search>

Supported request methods

GET

Params

- query -> Required, Encoded query terms see below for options
- auth_key -> Required, Authentication, use your auth_key
- max_results -> Optional, The number of data streams to return, up to a max of 100, default 100.
- callback -> Optional, If supplied, the response will use the JSONP format with a callback of the given name.

Example

http://apisandbox.juniar.com/datastreams/search?query=earthquakes%20world&max_results=5&auth_key=h3pq8z2eu84djqenbzik

```
[
  {
    id: "LATES-7-AROUN-THE-WORLD",
    title: "Latest 7 EarthQuakes ",
    subtitle: "Around the World",
    description: "Returns a Table with the information regarding the last
user: "betogess",
    tags: [
      "Earthquakes",
      "Latest EarthQuakes"
    ],
    created_at: 1273035231,
    source: "http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/qua
link: "http://www.juniar.com/portal/DataServicesManager/actionView?data
  },
  {
    id: "LARGE-EARTH-SINCE-1900",
    title: "Largest Earthquakes",
    subtitle: "Since 1900",
    description: "Returns a list of the largest earthquakes in the world s
user: "marir1411",
    tags: [
      "biggest earthquakes",
      "Largest Earthquakes",
      "Earthquakes"
    ],
  },
]
```

```
    created_at: 1300850041,
    source: "http://earthquake.usgs.gov/earthquakes/world/10_largest_world",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?data
  },
  {
    id: "LATES-EARTH-MAGNI-5-AND",
    title: "Latest earthquakes",
    subtitle: "magnitude 5 and greater",
    description: "Returns a list of the latest earthquakes around the world",
    user: "marir1411",
    tags: [
      "Latest EarthQuakes",
      "Earthquakes"
    ],
    created_at: 1299884834,
    source: "http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/quake",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?data
  },
  {
    id: "LATES-EARTH-QUAKE-FULL-TABLE",
    title: "Latest EarthQuakes in Chile",
    subtitle: "Full Table",
    description: "Date, magnitude and geographic reference of the latest magnitude",
    user: "birdman",
    tags: [
      "Earthquakes",
      "Latest EarthQuakes",
      "Chile"
    ],
    created_at: 1280713732,
    source: "http://ssn.dgf.uchile.cl/",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?data
  },
  {
    id: "COUNT-OF-ORDER-BY-POPUL",
    title: "Countries of the world",
    subtitle: "Ordered by Population Size",
    description: "List of the countries of the world ordered by population",
    user: "betogess",
    tags: [
      "Population",
      "population size",
      "world"
    ],
    created_at: 1292545184,
    source: "http://www.listofcountriesoftheworld.com/population.html",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?data
  }
]
```

Search Dashboards

Returns the dashboards matching the query criteria in their titles, descriptions and tags. The result is provided as an array of data stream objects

URL

<http://apisandbox.juniar.com/dashboards/search>

Supported request methods

GET

Params

- query -> Required, Encoded query terms see below for options
- auth_key -> Required, Authentication, use your auth_key
- max_results -> Optional, The number of dashboards to return, up to a max of 100, default 100.
- callback -> Optional, If supplied, the response will use the JSONP format with a callback of the given name.

Example

http://apisandbox.juniar.com/dashboards/search?query=deep%20impact&auth_key=h3pq8z2eu84djqenbzik

```
[
  {
    id: "DEEP-IMPAC-DATA-ON-ASTER",
    title: "Deep impact",
    description: "Data on asteroids approaching to the earth and impact ri
    user: "birdman",
    tags: [
      "NEO",
      "NASA",
      "Near Earth objects program",
      "Asteroid",
      "catastrophes"
    ],
    datastreams: [
      {
        id: "CLOSE-ASTER-WITHI-A-YEAR",
        title: "Closest Asteroids Approaches",
        subtitle: "Within a year",
        link: "http://www.juniar.com/portal/DataServicesManager/actionView?
      },
      {
        id: "CURRE-ASTER-IMPAC-RECEN-OBSER",
        title: "Current Asteroid Impact Risks",
        subtitle: "Recently observed",
        link: "http://www.juniar.com/portal/DataServicesManager/actionView?
      },
      {
```

```

    id: "EARTH-CLOSE-APPRO-RECEN",
    title: "Earth close approaches",
    subtitle: "Recent",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?
  },
  {
    id: "EARTH-CLOSE-APPRO-UPCOM",
    title: "Earth close approaches",
    subtitle: "Upcoming",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?
  },
  {
    id: "NEAR-EARTH-LARGE-NE-AS",
    title: "Near Earth Object Program",
    subtitle: "Large NEAs Discovered by site",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?
  },
  {
    id: "ODDS-OF-FROM-SELEC-CAUSE",
    title: "Odds of Dying in the US",
    subtitle: "From selected causes",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?
  },
  {
    id: "CLOSE-ASTER-APPRO-DATE-FOR",
    title: "Closest Asteroids Approaches",
    subtitle: "Approach date for an object",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?
  },
  {
    id: "CLOSE-ASTER-DATE-OF-NEXT",
    title: "Closest Asteroids Approaches",
    subtitle: "Date of next close approach",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?
  }
],
link: "http://www.junar.com/portal/DashboardsManager/actionView?dashbo
}
]

```

Search Options

In all of the cases, the query argument should contain the search criteria expressed in one of the following formats:

1. term1 term2: Searches for one of the terms
2. term1+term2: Searches for both term
3. "term1" : Searches for a phrase

The search is limited to a maximum of 100 results.

Methods for Accessing Objects

Data Stream Information

Returns the data stream general information for a given ID

URL

<http://apisandbox.juniar.com/datastreams/{id}>

Supported request methods

GET

Params

- `auth_key` -> Required, Authentication, use your `auth_key`
- `callback` -> Optional, If supplied, the response will use the JSONP format with a callback of the given name.

Example

http://apisandbox.juniar.com/datastreams/LATES-7-AROUN-THE-WORLD?auth_key=h3pq8z2eu84djqenbzik

```
{
  id: "LATES-7-AROUN-THE-WORLD",
  title: "Latest 7 EarthQuakes ",
  subtitle: "Around the World",
  description: "Returns a Table with the information regarding the last 7",
  user: "betogess",
  tags: [
    "Earthquakes",
    "Latest EarthQuakes"
  ],
  created_at: 1273035231,
  source: "http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/quake",
  link: "http://www.juniar.com/portal/DataServicesManager/actionView?dataset="
}
```

Data Stream Information with parameters

Example

http://apisandbox.juniar.com/datastreams/COLOM-STOCK-MARKE-CURRE-PRICE?auth_key=h3pq8z2eu84djqenbzik

```
{
  id: "COLOM-STOCK-MARKE-CURRE-PRICE",
  title: "Colombia Stock Market",
  subtitle: "Current Price",
  description: "Current price for a particular stock",
  user: "Startbull",
  tags: [
```

```
""
],
created_at: 1307052130,
source: "http://www.bvc.com.co/pps/tibco/portalbvc/Home/Mercados/enlinea
link: "http://www.junar.com/portal/DataServicesManager/actionView?datase
parameters: [
  {
    name: "day",
    position: 0,
    description: "day"
  },
  {
    name: "month",
    position: 1,
    description: "month"
  },
  {
    name: "year",
    position: 2,
    description: "year"
  },
  {
    name: "nemo",
    position: 3,
    description: "nemo"
  }
]
}
```

Dashboard Information

Returns the dashboard general information for a given ID including a summary of its data streams

URL

<http://apisandbox.juniar.com/dashboards/{id}>

Supported request methods

GET

Params

- `auth_key` -> Required, Authentication, use your `auth_key`
- `callback` -> Optional, If supplied, the response will use the JSONP format with a callback of the given name.

Example

http://apisandbox.juniar.com/dashboards/DEEP-IMPAC-DATA-ON-ASTER?auth_key=h3pq8z2eu84djqenbzik

```
{
  id: "DEEP-IMPAC-DATA-ON-ASTER",
  title: "Deep impact",
  description: "Data on asteroids approaching to the earth and impact risk",
  user: "birdman",
  tags: [
    "NEO",
    "NASA",
    "Near Earth objects program",
    "Asteroid",
    "catastrophes"
  ],
  datastreams: [
    {
      id: "CLOSE-ASTER-WITHI-A-YEAR",
      title: "Closest Asteroids Approaches",
      subtitle: "Within a year",
      link: "http://www.juniar.com/portal/DataServicesManager/actionView?da"
    },
    {
      id: "CURRE-ASTER-IMPAC-RECEN-OBSER",
      title: "Current Asteroid Impact Risks",
      subtitle: "Recently observed",
      link: "http://www.juniar.com/portal/DataServicesManager/actionView?da"
    },
    {
      id: "EARTH-CLOSE-APPRO-RECEN",
      title: "Earth close approaches",
      subtitle: "Recent",
      link: "http://www.juniar.com/portal/DataServicesManager/actionView?da"
    }
  ]
}
```

```
},
{
  id: "EARTH-CLOSE-APPRO-UPCOM",
  title: "Earth close approaches",
  subtitle: "Upcoming",
  link: "http://www.junar.com/portal/DataServicesManager/actionView?da
},
{
  id: "NEAR-EARTH-LARGE-NE-AS",
  title: "Near Earth Object Program",
  subtitle: "Large NEAs Discovered by site",
  link: "http://www.junar.com/portal/DataServicesManager/actionView?da
},
{
  id: "ODDS-OF-FROM-SELEC-CAUSE",
  title: "Odds of Dying in the US",
  subtitle: "From selected causes",
  link: "http://www.junar.com/portal/DataServicesManager/actionView?da
},
{
  id: "CLOSE-ASTER-APPRO-DATE-FOR",
  title: "Closest Asteroids Approaches",
  subtitle: "Approach date for an object",
  link: "http://www.junar.com/portal/DataServicesManager/actionView?da
},
{
  id: "CLOSE-ASTER-DATE-OF-NEXT",
  title: "Closest Asteroids Approaches",
  subtitle: "Date of next close approach",
  link: "http://www.junar.com/portal/DataServicesManager/actionView?da
}
],
link: "http://www.junar.com/portal/DashboardsManager/actionView?dashboar
}
```

Methods for consuming Data Streams

Consuming a Data Stream

Executes a data stream and returns its result in JSON format

URL

`http://apisandbox.juniar.com/datastreams/invoke/{id}`

Supported request methods

GET

Params

- `auth_key` -> Required, Authentication, use your `auth_key`
- `callback` -> Optional, If supplied, the response will use the JSONP format with a callback of the given name.

Example

`http://apisandbox.juniar.com/datastreams/invoke/TEPCO-STOCK-QUOTE?auth_key=h3pq8z2eu84djgenbzik`

```
{
  id: "TEPCO-STOCK-QUOTE",
  title: "TEPCO Stock",
  subtitle: "Quotes",
  description: "TEPCO stock prices and volumes",
  result: { \ \ Explained below
    fNum: 0,
    fBool: false,
    fArray: [
      {
        fNum: 0,
        fStr: "Recent Price(Trade Time)",
        fBool: false,
        fRows: 0,
        fCols: 0,
        fType: "TEXT"
      },
      {
        fNum: 0,
        fStr: "380 (15:00)",
        fBool: false,
        fRows: 0,
        fCols: 0,
        fType: "TEXT"
      },
      {
        fNum: 0,
        fStr: "Net Change (%)",
        fBool: false,
```

```

    fRows: 0,
    fCols: 0,
    fType: "TEXT"
  },
  {
    fNum: 0,
    fStr: "-40 (-9.52%)",
    fBool: false,
    fRows: 0,
    fCols: 0,
    fType: "TEXT"
  },
  {
    fNum: 0,
    fStr: "Open",
    fBool: false,
    fRows: 0,
    fCols: 0,
    fType: "TEXT"
  },
  {
    fNum: 0,
    fStr: "404",
    fBool: false,
    fRows: 0,
    fCols: 0,
    fType: "TEXT"
  },
  {
    fNum: 0,
    fStr: "Previous Close",
    fBool: false,
    fRows: 0,
    fCols: 0,
    fType: "TEXT"
  },
  {
    fNum: 0,
    fStr: "420",
    fBool: false,
    fRows: 0,
    fCols: 0,
    fType: "TEXT"
  },
  ... // Some values where removed for printing purposes
],
fRows: 6,
fCols: 4,
fType: "ARRAY"
},

```

```
source: "http://quote.tse.or.jp/tse/quote.cgi?F=listing%2FEDetail1&MKTN=  
link: "http://www.junar.com/portal/DataServicesManager/actionView?datase  
}
```

Consuming a Data Stream with parameters

Example

http://apisandbox.junar.com/datastreams/invoke/COLOM-STOCK-MARKE-CURRE-PRICE?pArgument0=09&pArgument1=6&pArgument2=2011&pArgument3=ECOPEtrol&auth_key=h3pq8z2eu84djqenbzik

```
{  
  id: "COLOM-STOCK-MARKE-CURRE-PRICE",  
  title: "Colombia Stock Market",  
  subtitle: "Current Price",  
  description: "Current price for a particular stock",  
  result: {  
    fNum: 0,  
    fBool: false,  
    fArray: [  
      {  
        fNum: 0,  
        fStr: "Precio Cierre",  
        fBool: false,  
        fRows: 0,  
        fCols: 0,  
        fType: "TEXT"  
      },  
      {  
        fNum: 0,  
        fStr: "4,015.00",  
        fBool: false,  
        fRows: 0,  
        fCols: 0,  
        fType: "TEXT"  
      }  
    ],  
    fRows: 2,  
    fCols: 1,  
    fType: "ARRAY"  
  },  
  source: "http://www.bvc.com.co/pps/tibco/portalbvc/Home/Mercados/enlinea  
  link: "http://www.junar.com/portal/DataServicesManager/actionView?datase  
}
```

JSON Structure

The **result** is an Argument object, which is a recursive data structure containing the following properties:

fType: Indicates the data type of the Argument. Its values could be ARRAY | TEXT | NUMBER. The ARRAY data type indicates that the Argument contains a TABLE.

When the data type is ARRAY *fRows* and *fCols* indicate the number of rows and columns of the TABLE. In the same way, *fArray* contains the data of the TABLE as an array of Argument objects.

When the data type is TEXT the value is contained in *fStr*. For a NUMBER data type the value is contained in *fNum*. *fBool* is not used today.

An Argument may contain a LINK. In such case, *fType* contains LINK, the corresponding uri comes in *fUri* and the text to show is contained in *fStr*.

When data type is ERROR, it means that there was an error when executing the data stream, the error message will be contained in *fStr*.

When a error occurs, the result is replaced with the last result that was correctly executed. To recognize if a result is updated, an additional property called *fTimestamp* exists. It has the *POSIX time* when the last execution was successful. If *fTimestamp* has a value of 0, that means that the result is updated.