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.junar.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.junar.com/datastreams/search?query=earthquakes%20world&max_results=5&auth_key=YOUR_AUTH_KEY`


```
[
  {
    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 signi
    user: "betogess",
    tags: [
      "Earthquakes",
      "Latest EarthQuakes"
    ],
    created_at: 1273035231,
    source: "http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/quakes_all
    link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice
  },
  {
    id: "LARGE-EARTH-SINCE-1900",
    title: "Largest Earthquakes",
    subtitle: "Since 1900",
    description: "Returns a list of the largest earthquakes in the world since 19
    user: "marir1411",
    tags: [
      "biggest earthquakes",
      "Largest Earthquakes",
      "Earthquakes"
    ],
    created_at: 1300850041,
    source: "http://earthquake.usgs.gov/earthquakes/world/10_largest_world.php",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice
  },
  {
```

```
    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 in th
    user: "marir1411",
    tags: [
      "Latest EarthQuakes",
      "Earthquakes"
    ],
    created_at: 1299884834,
    source: "http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/quakes_big
    link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice
  },
  {
    id: "LATES-EARTH-QUAKE-FULL-TABLE",
    title: "Latest EarthQuakes in Chile",
    subtitle: "Full Table",
    description: "Date, magnitude and geographic reference of the latest measurab
    user: "birdman",
    tags: [
      "Earthquakes",
      "Latest EarthQuakes",
      "Chile"
    ],
    created_at: 1280713732,
    source: "http://ssn.dgf.uchile.cl/",
    link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice
  },
  {
    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 size",
    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?dataservice
  }
]
```

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.junar.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.junar.com/dashboards/search?query=deep%20impact&`
`auth_key=YOUR_AUTH_KEY`


```
[
  {
    id: "DEEP-IMPAC-DATA-ON-ASTER",
    title: "Deep impact",
    description: "Data on asteroids approaching to the earth and impact risks",
    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.junar.com/portal/DataServicesManager/actionView?dataser
      },
      {
        id: "CURRE-ASTER-IMPAC-RECEN-OBSER",
        title: "Current Asteroid Impact Risks",
        subtitle: "Recently observed",
        link: "http://www.junar.com/portal/DataServicesManager/actionView?dataser
      },
      {
        id: "EARTH-CLOSE-APPRO-RECEN",
        title: "Earth close approaches",
        subtitle: "Recent",
        link: "http://www.junar.com/portal/DataServicesManager/actionView?dataser
      },
      {
```

```
        id: "EARTH-CLOSE-APPRO-UPCOM",
        title: "Earth close approaches",
        subtitle: "Upcoming",
        link: "http://www.junar.com/portal/DataServicesManager/actionView?dataser
      },
      {
        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?dataser
      },
      {
        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?dataser
      },
      {
        id: "CLOSE-ASTER-APPRO-DATE-FOR",
        title: "Closest Asteroids Approaches",
        subtitle: "Approach date for an object",
        link: "http://www.junar.com/portal/DataServicesManager/actionView?dataser
      },
      {
        id: "CLOSE-ASTER-DATE-OF-NEXT",
        title: "Closest Asteroids Approaches",
        subtitle: "Date of next close approach",
        link: "http://www.junar.com/portal/DataServicesManager/actionView?dataser
      }
    ],
    link: "http://www.junar.com/portal/DashboardsManager/actionView?dashboard_id=
  }
]
```


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.junar.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.junar.com/datastreams/LATES-7-AROUN-THE-WORLD?auth_key=YOUR_AUTH_KEY`


```
{
  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 signifi
  user: "betogess",
  tags: [
    "Earthquakes",
    "Latest EarthQuakes"
  ],
  created_at: 1273035231,
  source: "http://earthquake.usgs.gov/earthquakes/recenteqsww/Quakes/quakes_all.p
  link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice_i
}
```


Data Stream Information with parameters

Example
`http://apisandbox.junar.com/datastreams/COLOM-STOCK-MARKE-CURRE-PRICE?auth_key=YOUR_AUTH_KEY`


```
{
  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/accior
  link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice_i
  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.junar.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.junar.com/dashboards/DEEP-IMPAC-DATA-ON-ASTER?auth_key=YOUR_AUTH_KEY`


```
{
  id: "DEEP-IMPAC-DATA-ON-ASTER",
  title: "Deep impact",
  description: "Data on asteroids approaching to the earth and impact risks",
  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.junar.com/portal/DataServicesManager/actionView?dataservi
    },
    {
      id: "CURRE-ASTER-IMPAC-RECEN-OBSER",
      title: "Current Asteroid Impact Risks",
      subtitle: "Recently observed",
      link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservi
    },
    {
      id: "EARTH-CLOSE-APPRO-RECEN",
      title: "Earth close approaches",
      subtitle: "Recent",
      link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservi
    },
    {
      id: "EARTH-CLOSE-APPRO-UPCOM",
      title: "Earth close approaches",
      subtitle: "Upcoming",
      link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservi
    },
```

```
    {
      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?dataservi
    },
    {
      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?dataservi
    },
    {
      id: "CLOSE-ASTER-APPRO-DATE-FOR",
      title: "Closest Asteroids Approaches",
      subtitle: "Approach date for an object",
      link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservi
    },
    {
      id: "CLOSE-ASTER-DATE-OF-NEXT",
      title: "Closest Asteroids Approaches",
      subtitle: "Date of next close approach",
      link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservi
    }
  ],
  link: "http://www.junar.com/portal/DashboardsManager/actionView?dashboard_id=68
}
```

Methods for consuming Data Streams

Consuming a Data Stream

Executes a data stream and returns its result in JSON format

URL
`http://apisandbox.junar.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.junar.com/datastreams/invoke/TEPCO-STOCK-QUOTE?auth_key=YOUR_AUTH_KEY`


```
{
  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=T&QCODE
  link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice_i
}
```


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=YOUR_AUTH_KEY`

```
{
  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/accior
  link: "http://www.junar.com/portal/DataServicesManager/actionView?dataservice_i
}
```


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.