argusmedia.com

Argus Fundalytics - API documentation

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Overview

The Argus Media Fundalytics web service uses Representational State Transfer (REST) to provide access to fundamentals data. All API access is over HTTPS from the fundamentals.argusmedia.com domain.

What does this service provide?

This service provides access to the Argus Media Fundalytics data.

Below is an example of a web request using curl to get the latest 10 minutes of data.

Each data point in the example contains the ID of its data type. There are many data types in this feed, all representing different time series with different units of measurement. You can call the service to request information about these data types as well. All data of a particular data type was collected from a particular data source. Each data source may provide 1 or more types of data.

Each data type is associated with one or more source mappings, and one or more Argus Tags. Source mappings are classifications of each data type as provided by the supplier (i.e. specific to the data source in question). The Argus Tags are our way of classifying data types as part of a global system, and are not specific to the particular data source.

Argus Fundalytics

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/data

Example Response


```
<ArgusFundamentals>
  <Link rel="self" href="/data/2012-05-11/10.04/10"/>
  <Link rel="prev" href="/data/2012-05-11/09.54/10"/>
  <Link rel="next" href="/data/2012-05-11/10.14/10"/>
  <Data range="2012-05-11T09:50Z/PT10M">
    <DataPoint>
      <DataTypeId>4109</DataTypeId>
      <PublicationDateTime>2012-05-11T08:05:00</PublicationDateTime>
      <AppliesToDateTime>2012-05-11T07:00:00</AppliesToDateTime>
      <Value>0.00000000</Value>
      <ValueQuality/>
      <AuditDateTime>2012-05-11T09:00:51.7003750Z</AuditDateTime>
    </DataPoint>
  </Data>
</ArgusFundamentals>
```

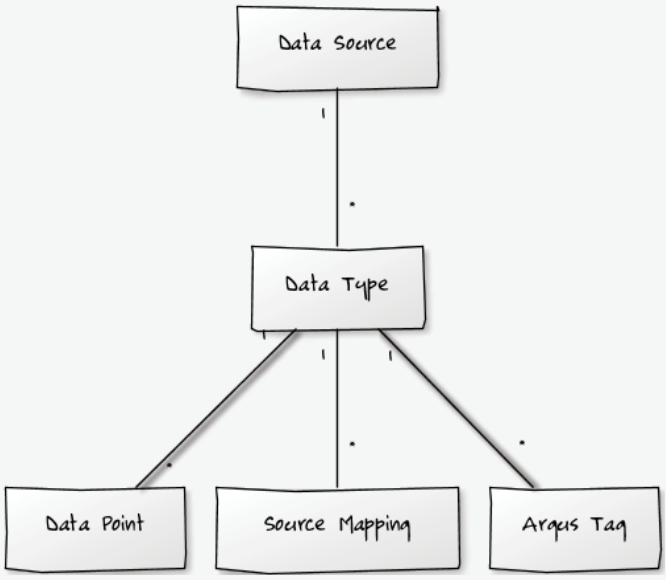

A note on dates and times

In the above example the user requested data at 10:04 UTC. We provide data through the service in 10 minute batches, so the data that was returned was the data collected between 09:50 and 10:00. The data for between 10:00 and 10:10 will be available at 10:10. The main reason for this limitation is to maintain a highly reliable service. There is no need to poll for data more frequently than once every 10 minutes. Argus will continually monitor performance with a view to minimising delays between acquisition and distribution of information.

Argus Fundalytics

Service Diagram

Name	Description
Data Source	Describes the source from which data have been collected.
Data Types	A Data Source may provide many different Data Types. The Data Type is unique to the Data Source. All data points have an associated Data Type.
Source Mapping	To help trace and validate values against the original source data we also provide the "codes" used by the data source.
Argus Tags	To help navigate and analyse the data our analysts have created a standardised set of tags that describe the data in more meaningful and global terms. These tags facilitate analysis across Data Sources. Note that units of measurement may differ between Data Sources.
Data Points	These points are the individual measurements of a particular Data Type collected over time.



Argus Fundalytics

The Service

The following are the available service calls. They are grouped by the type of data that you would like to retrieve. For example, calls pertinent to data types can be found under the data types heading. Note that calls for a particular type of data do not necessarily start with that keyword.

/data

Description

Returns the latest 10 minutes of data.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/data

Example Response


```
<ArgusFundamentals>
  <Link rel="self" href="/data/2012-05-11/10.04/10"/>
  <Link rel="prev" href="/data/2012-05-11/09.54/10"/>
  <Data range="2012-05-11T09:50Z/PT10M">
    <DataPoint>
      <DataTypeId>4109</DataTypeId>
      <PublicationDateTime>2012-05-11T08:05:00</PublicationDateTime>
      <AppliesToDateTime>2012-05-11T07:00:00</AppliesToDateTime>
      <Value>0.00000000</Value>
      <ValueQuality/>
      <AuditDateTime>2012-05-11T09:50:51.7003750Z</AuditDateTime>
    </DataPoint>
  </Data>
</ArgusFundamentals>
```


This response includes links to the current and previous windows of data as link elements. The data available in this call are updated every 10 minutes. There is no need to automate calls more frequently than every 10 minutes. The response then shows a list of data points wrapped in a data element. Note that although the above example includes only one data point, many will usually be returned.

/data/{duration}

Description
Returns data loaded over the previous minutes as specified by the user.

Example Query
curl -k -u "username:password" https://fundamentals.argusmedia.com/data/60

Example Response

```
<ArgusFundamentals>
  <Link rel="self" href="/data/2012-05-11/10.00/60"/>
  <Link rel="prev" href="/data/2012-05-11/09.00/60"/>
  <Link rel="next" href="/data/2012-05-11/11.00/60"/>
  <Data range="2012-05-11T09:00Z/PT60M">
    <DataPoint>
      <DataTypeId>4109</DataTypeId>
      <PublicationDateTime>2012-05-11T08:05:00</PublicationDateTime>
      <AppliesToDateTime>2012-05-11T07:00:00</AppliesToDateTime>
      <Value>0.00000000</Value>
      <ValueQuality/>
      <AuditDateTime>2012-05-11T09:00:51.7003750Z</AuditDateTime>
    </DataPoint>
  </Data>
</ArgusFundamentals>
```


This response includes links to the current, previous and next windows of data as link elements. The response then shows a list of data points wrapped in a data element. Note that although the above example includes only one data point, many will usually be returned.

/data/{date}/{time}

Description
Returns the last 10 minutes of data prior to a particular date and time as specified by the user.

Example Query
curl -k -u "username:password" https://fundamentals.argusmedia.com/data/2012-05-11/10.00/10

Example Response

```
<ArgusFundamentals>
  <Link rel="self" href="/data/2012-05-11/10.00/10"/>
  <Link rel="prev" href="/data/2012-05-11/09.50/10"/>
  <Link rel="next" href="/data/2012-05-11/10.10/10"/>
  <Data range="2012-05-11T09:50Z/PT10M">
    <DataPoint>
      <DataTypeId>4109</DataTypeId>
      <PublicationDateTime>2012-05-11T08:05:00</PublicationDateTime>
      <AppliesToDateTime>2012-05-11T07:00:00</AppliesToDateTime>
      <Value>0.00000000</Value>
      <ValueQuality/>
      <AuditDateTime>2012-05-11T09:50:51.7003750Z</AuditDateTime>
    </DataPoint>
  </Data>
</ArgusFundamentals>
```


This response includes links to the current, previous and next windows of data as link elements. The response then shows a list of data points wrapped in a data element. Note that although the above example includes only one data point, many will usually be returned.

/data/{date}/{time}/{duration}

Description

Returns data loaded over the previous minutes prior to a particular date and time as specified by the user.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/data/2012-05-11/10.00/60

Example Response


```
<ArgusFundamentals>
  <Link rel="self" href="/data/2012-05-11/10.00/60"/>
  <Link rel="prev" href="/data/2012-05-11/09.00/60"/>
  <Link rel="next" href="/data/2012-05-11/11.00/60"/>
  <Data range="2012-05-11T09:00Z/PT60M">
    <DataPoint>
      <DataTypeId>4109</DataTypeId>
      <PublicationDateTime>2012-05-11T08:05:00</PublicationDateTime>
      <AppliesToDateTime>2012-05-11T07:00:00</AppliesToDateTime>
      <Value>0.00000000</Value>
      <ValueQuality/>
      <AuditDateTime>2012-05-11T09:00:51.7003750Z</AuditDateTime>
    </DataPoint>
  </Data>
</ArgusFundamentals>
```


This response includes links to the current, previous and next windows of data as link elements. The response then shows a list of data points wrapped in a data element. Note that although the above example includes only one data point, many will usually be returned.

/datatypes/{datatype}/data/{date}/{time}/{duration}

Description

Returns data for a specific Data Type within a given time period.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/datatypes/4103/2012-06-01/10.15/30

/datasources

Returns Data Sources or information for a specific Data Source.

Description

Returns a list of all the Data Sources from which data are collected.

Example Query

```
curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources
```

Example Response


```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datasources" />
  <DataSources>
    <DataSource>
      <Id>9500</Id>
      <Code>APX</Code>
      <Description>APX</Description>
      <Link rel="datatypes" href="/datasources/apx/datatypes" />
      <Link rel="datatypetags" href="/datasources/apx/datatypetags" />
      <Link rel="datatypemappings" href="/datasources/apx/datatypemappings" />
    </DataSource>
    <DataSource>
      <Id>150000</Id>
      <Code>ARGUS</Code>
      <Description>Argus</Description>
      <Link rel="datatypes" href="/datasources/argus/datatypes"/>
      <Link rel="datatypetags" href="/datasources/argus/datatypetags"/>
      <Link rel="datatypemappings" href="/datasources/argus/datatypemappings"/>
    </DataSource>
  </DataSources>
</ArgusFundamentals>
```

/datatypes/{datatype}

Returns Data Types. There are multiple Data Types per Data Source. Each data point is of a particular Data Type.

Description

Returns information about a particular Data Type. This includes a list of Argus Tags, and Source Mappings

Example Query

```
curl -k -u "username:password" https://fundamentals.argusmedia.com/datatypes/4103
```

Example Response


```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datatypes/4103" />
  <DataType>
  <Id>4103</Id>
  <Name>IUK, BACTON ENTRY_NOM ENTRY MWh/hr</Name>
  <Source>IUK</Source>
    <DataTypesMapping>
        <Mapping01>BACTON</Mapping01>
        <Mapping02>ENTRY_NOM</Mapping02>
        <Mapping03>MWh/hr</Mapping03>
        <Mapping04>ENTRY</Mapping04>
    </DataTypesMapping>
    <DataTypeTags>
        <DataTypeTag>
          <TypeName>RELEASE_STATUS</TypeName>
          <Key>LIVE</Key>
          <Description>Live</Description>
        </DataTypeTag>
        <DataTypeTag>
          <TypeName>COMMODITY</TypeName>
          <Key>GAS</Key>
          <Description>Natural Gas</Description>
        </DataTypeTag>
        <DataTypeTag>
          <TypeName>DATA_SOURCE</TypeName>
          <Key>IUK</Key>
          <Description>IUK</Description>
        </DataTypeTag>
    </DataTypeTags>
</DataType>
</ArgusFundamentals>
```

/datatypes/{date}/{time}

Description
Returns a list of Data Types which have been updated since the specified date and time.

Example Query
curl -k -u "username:password" https://fundamentals.argusmedia.com/datatypes/2012-08-02/10.00

Example Response

```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
   <Link rel="self" href="/datasources/datatypes/2012-08-02/10.00" />
  <DataTypes>
   <DataType>
    <Id>300000</Id>
    <Source>BAYERNETS</Source>
    <Name>BAYERNETS, HAIMING Entry Nomination Volumes KWh Daily</Name>
   </DataType>
   <DataType>
    <Id>300001</Id>
    <Source>BAYERNETS</Source>
    <Name>BAYERNETS, INZENHAM UGS Entry Nomination Volumes KWh Daily</Name>
   </DataType>
  </DataTypes>
</ArgusFundamentals>
```


/datasources/{datasource}/datatypes

Description
Returns the list of Data Types available from the specified Data Source.

Example Query
curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources/apx/datatypes

Example Response

```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
   <Link rel="self" href="/datasources/apx/datatypes" />
   <DataTypes>
      <DataType>
         <Id>9500</Id>
         <Source>APX</Source>
         <Name>APX SAP p/th</Name>
      </DataType>
   </DataTypes>
</ArgusFundamentals>
```

/datasources/{datasource}/datatypes/{date}/{time}

Description

Returns a list of Data Types from a particular Data Source which have been updated since the specified date and time.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources/gse/datatypes/2012-06-02/10.00

Example Response


```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datasources/gse/datatypes/2012-06-02/10.00" />
 <DataTypes>
  <DataType>
   <Id>1195</Id>
   <Source>GSE</Source>
   <Name>GSE, Iberian (Portugal), % FULL (DAILY)</Name>
  </DataType>
  <DataType>
   <Id>1197</Id>
   <Source>GSE</Source>
   <Name>GSE, Iberian (Portugal), DTMTI (DAILY)</Name>
  </DataType>
  <DataType>
   <Id>1196</Id>
   <Source>GSE</Source>
   <Name>GSE, Iberian (Portugal), DTMTS (DAILY)</Name>
  </DataType>
 </DataTypes>
</ArgusFundamentals>
```

/datasources/{datasource}/datatypemappings

Description

Returns the list of mappings available from a specified Data Source.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources/eon/datatypemappings

Example Response


```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datasources/eon/datatypemappings" />
  <DataTypesMappings>
    <DataTypesMapping>
    <DataTypeId>4000</DataTypeId>
    <Mapping01>Dornum (Entry)</Mapping01>
    <Mapping02>NominationKWH</Mapping02>
  </DataTypesMapping>
  <DataTypesMapping>
    <DataTypeId>4001</DataTypeId>
    <Mapping01>Dornum (Entry)</Mapping01>
    <Mapping02>AllocationKWH</Mapping02>
  </DataTypesMapping>
  <DataTypesMapping>
    <DataTypeId>4002</DataTypeId>
    <Mapping01>Dornum (Entry)</Mapping01>
    <Mapping02>RestrictedQuantityKWH</Mapping02>
  </DataTypesMapping>
  <DataTypesMapping>
    <DataTypeId>4003</DataTypeId>
    <Mapping01>Emden EPT (Entry)</Mapping01>
    <Mapping02>NominationKWH</Mapping02>
  </DataTypesMapping>
</DataTypesMappings>
</ArgusFundamentals>
```

/datasources/{datasource}/datatypemappings/{date}/{time}

Description

Returns Source Mappings from a specified Data Source which have been updated since the specified date and time.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources/eon/datatypemappings/2012-05-11/10.00

Example Response


```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datasources/eon/datatypemappings/2012-05-11/10.00" />
  <DataTypesMappings>
    <DataTypesMapping>
    <DataTypeId>4000</DataTypeId>
    <Mapping01>Dornum (Entry)</Mapping01>
    <Mapping02>NominationKWH</Mapping02>
  </DataTypesMapping>
  <DataTypesMapping>
    <DataTypeId>4001</DataTypeId>
    <Mapping01>Dornum (Entry)</Mapping01>
    <Mapping02>AllocationKWH</Mapping02>
  </DataTypesMapping>
</DataTypesMappings>
</ArgusFundamentals>
```


/tags

Description

Returns the full list of Argus Tags in the database.

Example Query

curl -k -u "username:password" https://fundamentals.argusmedia.com/tags

Example Response


```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/tags" />
  <Tags>
    <Tag>
      <Id>0</Id>
      <TypeName>RELEASE_STATUS</TypeName>
      <Key>LIVE</Key>
      <Description>Live</Description>
    </Tag>
  </Tags>
</ArgusFundamentals>
```

/datasources/{datasource}/datatypetags

Description
Returns the list of Argus Tags associated with a specified Data Source.

Example Query
curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources/apx/datatypetags

Example Response

```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datasources/apx/datatypetags" />
  <DataTypeTags>
    <DataTypeTag>
      <DataTypeId>9500</DataTypeId>
      <TypeName>COMMODITY</TypeName>
      <Key>GAS</Key>
      <Description>Natural Gas</Description>
    </DataTypeTag>
  </DataTypeTags>
</ArgusFundamentals>
```


/datasources/{datasource}/datatypetags/{date}/{time}

Description
Returns a list of Argus Tags associated with a specified Data ource which have been updated since a specified date and time.

Example Query
curl -k -u "username:password" https://fundamentals.argusmedia.com/datasources/apx/datatypetags/2012-05-11/10.00

Example Response

```
<?xml version="1.0" encoding="utf-8"?>
<ArgusFundamentals>
  <Link rel="self" href="/datasources/apx/datatypetags" />
  <DataTypeTags>
    <DataTypeTag>
      <DataTypeId>9500</DataTypeId>
      <TypeName>COMMODITY</TypeName>
      <Key>GAS</Key>
      <Description>Natural Gas</Description>
    </DataTypeTag>
  </DataTypeTags>
</ArgusFundamentals>
```

Frequently asked questions

HTTP Verbs

This service is a read-only resource that provides information via HTTP GET requests.

HTTP Authentication

To access this service basic authentication is required

$ curl -k -u "username:password" https://fundamentals.argusmedia.com

HTTP Status Codes

400 The request is malformed. Check the error message.
401 The username and password supplied are invalid.
404 The requested url is not found.
410 The resource is no longer available.
415 The MIME type used is not currently supported: please see Supported Mime Types
500 An internal error has occurred. If this is constantly happening contact support.

Rate Limited

Requests are limited to 1000 per hour. This limit is keyed off your login. You can check the returned HTTP headers of any API request to see your current status.

Request:
$ curl -i https://fundamentals.argusmedia.com

Response:
HTTP/1.1 200 OK
Status: 200 OK
X-RateLimit-Limit: {ratelimit}
X-RateLimit-Remaining: 93
X-RateLimit-Reset: 2012-05-31T10:00Z

MIME Types

MIME types can be used to choose the format that the data will be returned from the service. The service currently supports XML.

$ curl -H "Accept:text/xml"

Caching

This service is cached to provide the latest data in 10 minute segments. For example, if a user requested data at 10:04 UTC and did not specify a duration then the data returned were collected between 09:50 and 10:00. Data for 10:00 to 10:10 will be available at 10:10. The main reason for this limitation is to maintain a highly reliable service. There is no need to poll for data more frequently than once every 10 minutes. Argus will continually monitor performance with a view to minimising delays between acquisition and distribution of information.

Compression

The web service supports gzip or deflate compression. To activate you will need to include the header Accept-Encoding.

$ curl -k -u "username:password" -H "Accept-Encoding:gzip,deflate" https://fundamentals.argusmedia.com