

Metric API

This article provides sample API calls to manipulate Metrics.

PREREQUISITES:

- [Set up API access](#)
- [Verify that you have API access](#)
- Obtain a token via a [get token call](#) since all API calls require a token

Access Admin > System > API Tool Kit

1. Get all Metrics

The screenshot shows the 'API Toolkit' interface with a top navigation bar containing a search bar and user information. The main area is titled 'API Test Tool' and includes a 'Run Request' button. The workflow is numbered 1 through 4:

- Item:** A dropdown menu is set to 'metric'. A note below states: 'Use GET for "Select", POST for "Insert", PUT for update, and DELETE for "Delete"'. A 'Request Headers' section shows a 'Token' field with a long alphanumeric string and an 'Accept' field set to 'application/xml'.
- Methods:** A dropdown menu is set to 'GET'. Below it are fields for 'ID', 'Actions' (set to '--'), 'data_source', 'data_source_parameter_name', 'data_source_parameter_value', 'data_source_external_report', and 'source_report'.
- Request URL:** The URL is 'https://metricinsights.com/api/metric'. A note below states: 'Form request methods with applicable to POST (Insert) and PUT (Update)'.
- Raw response:** A box containing the following XML data:

```
<?xml version="1.0" encoding="utf-8"?>
<response>
  <metrics>
    <metric>
      <id>97</id>
      <measurement_interval>3</measurement_interval>

      <values_are_additive_across_time_periods>yes</values_are_additive_across_time_periods>
      <name>Daily Peak Website Visits</name>
      <description>Daily Peak Website Visits for a Country
    </metric>
  </metrics>
</response>
```

Filter out all Metrics currently existing in the system, followed by the key information per each of them (such as measure, name description, category, data source, dimension, etc.)

1. **Item:** metric
2. **Method:** GET
3. **Request URL** (generated automatically): `https://<hostname>.com/api/metric`
4. **Run request**

2. Return Information about a specific Metric

API Toolkit

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API Test Tool

5 Run Request Show Sample Request

Explore and test available API calls; establish necessary tokens

1 Item

Use GET for "Select", POST for "Insert", PUT for update, and DELETE for "Delete"

2 Methods GET POST PUT DELETE

3 ID

Actions --

4 Request URL

'Form request' fields are only applicable to POST (Insert) and PUT (Update) methods with ID

Request Headers

Token

Accept

Raw response

```
<?xml version="1.0" encoding="utf-8"?>
<response>
  <metrics>
    <metric>
      <id>97</id>
      <measurement_interval>3</measurement_interval>

    <values_are_additive_across_time_periods>yes</values_are_additive_across_time_periods>
    <name>Daily Peak Website Visits</name>
    <description>Daily Peak Website Visits for a Country
  </description>

```

You can obtain all the information about a specific Metric (such as measure, name, description, category, data source, dimension, etc.)

1. **Item:** metric
2. **Method:** GET
3. **ID:** Specify the ID of the Metric you wish to get information about. Metric ID can be determined in the web browser URL of the *Metric Editor*. For example:

```
https://<hostname>.com/chart/index/index/element/55
```

4. **Request URL** (generated automatically): `https://<hostname>.com/api/metric/<id>`
5. **Run request**

3. Get :last_measurement_time Example

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4 Run Request Show Sample Request

Explore and test available API calls; establish necessary tokens

1 Item: **element_info**

Use GET for "Select", POST for "Insert", PUT for update, and DELETE for "Delete"

2 Methods: **GET** PUT

ID

Actions

3 element: **1555**

dimension_value: **2608**

category

category_name

business_owner

business_owner_username

business_owner_email

tag

tag_name

Request URL: https://api.metricsinsights.com/api/element_info?element=1555&dimension_value=2608

Request Headers

Token: **hUXjwI6RAg22WlodMuavTmrkFadkwGCHxVW2c8gl**

Accept: **application/xml**

Raw response

```
<?xml version="1.0" encoding="utf-8"?>
<response>
  <info>
    <id>1555</id>
    <dimension_value>2608</dimension_value>
    <name>&lt;b>Australia&b> | &lt;b>wine&lt;b> | Monthly Sales</name>
    <description>Daily Sales by Country and Product
  </info>
  <last_updated_time>2019-03-08 09:20:05</last_updated_time>
  <content_type>Metric</content_type>
  <element_type>metric</element_type>
</response>
```

You can find the date that a metric/dimension was last updated.

1. **Item:** element_info
2. **Method:** GET
3. Define the following parameters:
 - **element** (*numeric value*) - element id
 - **dimension_value** (*numeric value*) - dimension value id (for dimensioned elements)

These parameters can be determined in the web browser URL of the Metric Viewer. For example:

<https://<hostname>.com/chart/index/index/element/1555/segment/2608>

4. Run request

4. Get Metrics Based on "User" Criteria

The screenshot displays the API Toolkit interface. On the left, the 'Request Headers' section is visible, showing a 'Token' and 'Accept' header. The main area is the 'Request Body' section, which is currently empty. The 'Raw response' section on the right shows a JSON object with the following structure:

```

{
  "element_type": "metric",
  "category": "85",
  "business_owner_email": "grayson@metricinsights.com",
  "technical_owner_email": "grayson@metricinsights.com",
  "certified_ind": "N",
  "certified_by": null,
  "last_certified_time": "2016-02-02 13:39:48",
  "last_measurement_time": "2018-08-13 00:00:00",
  "tags": [
    "website",
    "visits"
  ]
}

```

Arrows indicate the mapping of the 'category', 'business_owner', and 'tag' fields from the request body to the corresponding fields in the raw response.

You can display metrics based on a single, or combination of, "user" fields. In this example, you can find all metrics based on combination of Category, Business Owner, and Tag.

1. **Item:** element_info
2. **Method:** GET
3. **Category:** Id from the URL or Category Name
4. **Business Owner:** Use Owner Name, email, or Username
5. **Tag:** Tag name or Tag-id
6. **Run request**

5. Delete measurements for a certain Time Range

API Toolkit

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API Test Tool

7 Run Request Show Sample Request

Explore and test available API calls; establish necessary tokens

1 Item:

Use GET for "Select", POST for "Insert", PUT for update, and DELETE for "Delete"

2 Methods:

3 ID:

4 Actions:

Request URL:

5 Raw request / JSON request / XML request / Form request

call:

6 delete_measurements_from:

delete_measurements_through:

Request Headers

Token:

Accept:

Raw response

```
{
  "status": "OK"
}
```

You can delete a range of values from a Metric.

1. **Item:** metric
2. **Method:** PUT
3. **ID:** Specify the ID of a Metric you wish to get information about. Metric ID can be determined in the web browser URL of the *Metric Viewer*. For example:

<https://<hostname>.com/editor/metric/edit/element/2037>

4. **Actions:** Choose to **Delete Data**. Your choice will automatically define a value in the **call** field below
5. Set to **Form request**
6. Define values for the following parameters:
 - **delete_measurements_from:** (*measurement time should be in one of the following formats: yyyy-mm-dd or yyyy-mm-dd 00:00:00*) - date from which measurements will be deleted
 - **delete_measurements_through:** (*measurement time should be in one of the following formats: yyyy-mm-dd or yyyy-mm-dd 00:00:00*) - date through which measurements will be deleted

7. Run request