Reporting API

The Analytics 2.0 reporting API endpoints allow you to access reports programmatically through Adobe Developer. The endpoints use the same data and methods that are used when working with reports in the UI. By using this API, you can programmatically report to executive dashboards, custom reporting platforms, tight Experience Cloud integrations, or other options.

Adobe may add optional request and response members (name/value pairs) to existing API objects at any time and without notice or changes in versioning. Adobe recommends that you refer to the API documentation of any third-party tool you integrate with our APIs so that such additions are ignored in processing if not understood. If implemented properly, such additions are non-breaking changes for your implementation. Adobe will not remove parameters or add required parameters without first providing standard notification through release notes.

The report endpoints described in this guide are routed through analytics.adobe.io. To use them, you will need to first create a client with access to the Adobe Analytics Reporting API. For more information, refer to Getting started with the Analytics API.

This guide includes instructions for using the following endpoints:

- POST reports: Creates report requests and returns data for an existing report suite. This corresponds to creating a visualization in the UI.
- GET top items: Returns only the specified number of items in the report, ranked by highest data values

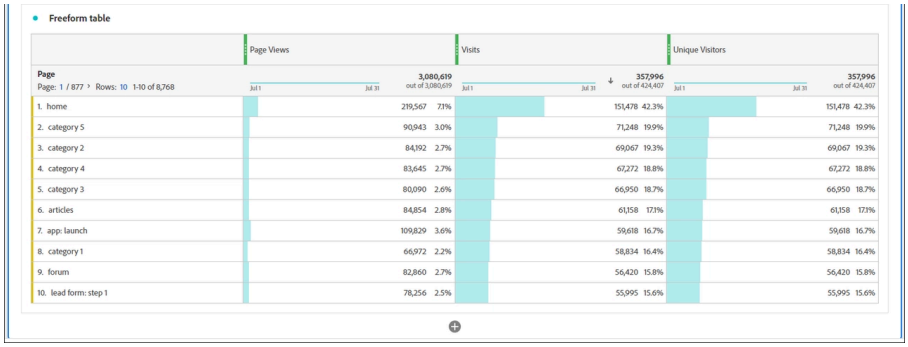
This guide does not include descriptions for all request and response parameters for the reports endpoint. For more information on parameters included with this endpoint, see the API reference. Also, you can copy API JSON request payloads and responses associated with any visualization directly from Analysis Workspace with the Oberon debugger tool. This can be a helpful aid in structuring any API reporting request from Analysis Workspace visualizations.

Request reporting data

This guide includes API instructions that correspond to an example free-form table visualization in Analysis Workspace with the `page` dimension and the following metrics:

- `pageviews`
- `visits`
- `visitors`

This example appears in Analysis Workspaces similar to the following graphic:



To make the request, use the following URI for your POST HTTP call:

POST `https://analytics.adobe.io/api/{global-company-id}/reports`

Click the **Request** tab in the following example to see a POST request corresponding to the data shown in the visualization above, limited to the top ten values. Click the **Response** tab to see a successful JSON response for the request.

Example request Example response

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```
curl -X 'POST' \
  'https://analytics.adobe.io/api/{global-company-id}/reports' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -H 'x-api-key: {API-key}' \
  -H 'Authorization: {Bearer-token}
  -d '{REQUESTJSON}
{
    "rsid": "examplersid",
    "globalFilters": [
        {
            "type": "dateRange",
            "dateRange": "2023-07-01T00:00:00.000/2023-08-01T00:00:00.000",
            "dateRangeId": "thisMonth"
        }
    ],
    "metricContainer": {
        "metrics": [
            {
                "columnId": "0",
                "id": "metrics/pageviews"
            },
            {
                "columnId": "1",
                "id": "metrics/visits",
                "sort": "desc"
            },
            {
                "columnId": "2",
                "id": "metrics/visitors"
            }
        ]
    },
    "dimension": "variables/page",
    "settings": {
        "countRepeatInstances": true,
        "includeAnnotations": true,
        "limit": 10,
        "page": 0,
        "nonesBehavior": "exclude-nones"
```

```
            "col-max",
            "col-min"
        ]
    },
    "capacityMetadata": {
        "associations": [
            {
                "name": "applicationName",
                "value": "Analysis Workspace UI"
            },
            {
                "name": "projectId",
                "value": "undefined"
            },
            {
                "name": "projectName",
                "value": "New project"
            },
            {
                "name": "panelName",
                "value": "Freeform table"
            }
        ]
    }
}
```

Example request details

In addition to the metrics described above, the JSON payload requests the following:

- Time period From July 1, 2023 00:00:00.000 - August 1, 2023 00:00:00.000, using the report suite timezone
- To sort response `visits` by descending `value`, i.e. highest to lowest

Request parameters

The example request includes the following parameters in the payload:

PARAMETER	REQ/OPT	TYPE	DESCRIPTION
`rsid`	required	string	report suite ID
`globalFilters`	optional	array	Contains `type`, `dateRange`, and `dateRangeId`
`type`	optional	string	The type of filter applied
`dateRange`	optional	string	The date range of the data
`dateRangeId`	optional	string	The label for the date range; e.g., `ThisMonth`
`metricContainer`	optional	object	Contains `metrics` array
`metrics`	optional	array	Contains `ColumnId`, `id`, and `sort`
`columnId`	optional	string	The column number in the table visualization,

			from 0
`id`	optional	string	The name of the element for the column; e.g., the name of the `metric`
`sort`	optional	string	The sorting applied to the column data-- `asc` or `desc`
`dimension`	required	string	The dimension used for the report
`settings`	optional	object	The settings requested for the reporting response, as specified by the parameters in the following five rows
`countRepeatInsta`	optional	boolean	Whether to count repeat instances of a returned metric
`includeAnnotatio`	optional	boolean	Whether to include annotations in the response
`limit`	optional	integer	The maximum number of items to return in the response
`page`	optional	integer	The maximum number of pages to return in the response
`nonesBehavior`	optional	string	Excludes instances with values of `0` if set to `exclude-nones`
`statistics`	optional	object	Contains the `functions` array
`functions`	optional	array	Contains `col-max` and `col-min`
`col-max`	optional	string	The column maximum
`col-min`	optional	string	The column minimum
`capacityMetadata`	optional	object	Contains `associations` array
`associations`	optional	array	Contains `name` and `value` parameters for each type of metadata associated with report; e.g., `applicationName`, `projectId`, `projectName`, and `panelName`
`name`	optional	string	The associated category type of the associated metadata
`value`	optional	string	The actual name or title specified for the metadata category in the report

`pageViews`, `visits`, and `visitors` metrics:

1. home
2. category 5
3. category 2
4. category 4
5. category 3
6. articles
7. app: launch
8. category 1
9. forum
10. leaf form: step 1

Additionally, the response above shows the following:

- Each `row` section contains each report record.
- The `value` property contains the dimension value.
- The `data` property contains a list of metric counts for each metric requested.
- The `summaryData` section contains a total of the metrics in the current report.

If you do not include a `limit` with your POST request, you can subsequently use the GET top items endpoint--described in a following section--to have only the top specified number of items returned.

Response parameters

The example response includes the following parameters:

PARAMETER	TYPE	DESCRIPTION
`totalPages`	integer	The total number of pages with data
`firstPage`	boolean	Whether to include the first page of results
`lastPage`	boolean	Whether to include the last page of results
`numberOfElements`	integer	The number of item elements in the report
`number`	integer	The number of pages, starting with `0`
`totalElements`	integer	Total number of elements in the report
`columns`	object	Contains column and `dimension` data
`dimension`	object	Contains `id` and `type`
`id`	string	Name of the dimension
`type`	string	The `dimension` ID data type
`columnIds`	string	The column number in the table visualization, left to right, starting from `0`
`rows`	container	Contains `itemId`, `value` and `data`
`itemId`	string	The item ID
`value`	string	The name specified for the `itemId` in the report

		for the requested items
`summaryData`	object	Contains the **ranked** summary data information described in the following rows
`filteredTotals`	number($double)	The data totals after the specified filters are applied
`annotations`	string	Annotations for the summary data, if specified
`totals`	number($double)	The data totals
`annotationExceptions`	string	Exceptions for annotations
`col-max`	optional	The column maximum
`col-min`	optional	The column minimum

Retrieve top items

Use the GET Top Items request to return only the top items from the previous POST body, according the maximum number of items you want returned (excluding `NonValues`). They are returned in ranked order. You can specify the maximum with `limit` included as a query parameter in the request.

To make the request, use the following URI for your GET HTTP call:

GET `https://analytics.adobe.io/api/{global-company-id}/reports/topItems`

Example request

The following example shows a request for a top items report for the POST body shown above:

Copy

```
curl -X 'GET' \
  'https://analytics.adobe.io/api/{global-company-id}/reports/topItems?rsid=examp
  -H 'accept: application/json' \
  -H 'x-api-key: 5a8dcc2cfa71472cbfa4fb53671c45ed' \
  -H 'Authorization: {Bearer-token}
```

In this example, you append the previous request body to the cURL call. Note that this request specifies that `NoneValues` not be included and that the `limit` of items to return be `10`.

The response for this request is the same as the example response shown above.

Partial Responses (206 Status Code)

A 206 status code indicates a partial response. This status code means that there were some columns in the reporting response that have errors. These errors can include any of the following:

- **Unauthorized Metric**: User does not have access to the requested metric
- **Metric Not Enabled**: The requested metric is not enabled in this report suite
- **Unauthorized Dimension**: User does not have access to the requested dimension
- **Dimension Not Enabled**: The requested dimension is not enabled in this report suite
- **Unauthorized Global Dimension**: User does not have access to the global dimension for this request
- **Global Dimension Not Enabled**: The global dimension for this request is not enabled in this report suite
- **Unexpected Number of Items**: Anomaly Detection algorithm returned an unexpected number of anomalies
- **General Service Error**: General Anomaly Detection service error

- Breakdown dimensions
- Example reporting API calls
- Search filters
- Use segments in the reporting API
- Oberon XML and JSON debugger

‹ FAQ

Real-time ›

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