

Any Stats API

reports.json	3
Report method	4
Return Values	6
Authentication and Security	8
Encoding	8
Revision History	9

Any Stats expects [RESTful interface](#) on the server side. The data format is JSON.

reports.json

Returns the top of the reports tree available for the user. Starting from this method, application leads the user through branches and reports.

URL:

{BASE_uRL}/reports.json

HTTP method:

GET

Response:

```
{“reports” : [
  {“type” : “branch”,
   “name” : “Disk Space”,
   “url” : “\reports\disk_space\”},

  {“type” : “branch”,
   “name” : “Cpu”,
   “url” : “\reports\cpu\”},

  {“type” : “report”,
   “report_type” : “trend”,
   “name” : “Load Average”,
   “url” : “\reports\load_average.json”},

  {... skipped ...},

  {“type” : “report”,
   “report_type” : “table”,
   “name” : “users”,
   “short_description” : “Logged in users”
   “url” : “\reports\users.json”}
]
```

Report method

Returns report data. Application receives URL of this method from the server during reports tree traversal.

URL:

{BASE_URL}/some_path/<received_from_server>.json

HTTP method:

GET

Parameters:

- `start_date`. Optional. Sets the start date for the report. Represented in unix time.
 - Example: {BASE_URL}/some_report.json?start_date=1230757200
- `end_date`. Optional. Sets the end date for the report. Represented in unix time.
 - Example: {BASE_URL}/some_report.json?end_date=1256936400
- `summarize_by`. Optional. Sets the report summarization (by hour, day, week, etc.).
 - Example: {BASE_URL}/some_report.json?summarize_by=month
- `page`. Optional. Sets the report page number. If omitted, the first page is expected.
 - Example: {BASE_URL}/some_report.json?page=2&count=10
- `count`. Optional. Sets the number of report values for the page specified by the `page` parameter.
 - Example: {BASE_URL}/some_report.json?page=2&count=10

Response:

Report of type "trend". Represented as a line plot or a bar chart. Server returns the amounts of money by month between January and October, 2009. X value of each element in the data array is a unix time calculated for 12:00 p.m. on the first day of month.

```
{ "report" : {
  "type" : "trend",
  "start_date" : 1230757200,
  "end_date" : 1256936400,
  "summarize_by" : "month",
  "summarizations" : ["day", "week", "month"],
  "units" : "currency",
  "currency_code" : "USD",
  "data" : [
    { "x" : 1230757200, "y" : 123 },
    { "x" : 1233435600, "y" : 567 },
    ... skipped ...,
    { "x" : 1256504400, "y" : 789 }
  ]
}
```

Report of type "percentage". Represented as a pie chart.

```
{ "report" : {  
  "type" : "percentage",  
  "start_date" : 1230757200,  
  "end_date" : 1256936400,  
  "summarize_by" : "week",  
  "units" : "currency",  
  "currency_code" : "USD",  
  "total_sum" : 10001,  
  "total_count" : 3,  
  "data" : [  
    { "name" : "Safari", "value" : 4760 },  
    { "name" : "Firefox", "value" : 3510 },  
    { "name" : "Chrome", "value" : 1731 }  
  ]  
}
```

Report of type "table". Represented as a simple table.

```
{ "report" : {  
  "type" : "table",  
  "start_date" : 1230757200,  
  "end_date" : 1256936400,  
  "summarize_by" : "week",  
  "units" : "currency",  
  "currency_code" : "USD",  
  "total_count" : 3,  
  "data" : [  
    { "name" : "Safari", "value" : 4760 },  
    { "name" : "Firefox", "value" : 3510 },  
    { "name" : "Chrome", "value" : 1731 }  
  ]  
}
```

Return Values

currency_code

Description: currency code based on the ISO 4217 standard. Used when “units” are set to “currency”.

Examples: “USD”, “GBP”.

data

Description: report data array of name/value pairs.

Example: [{"x" : 1230757200, "y" : 123}, {"x" : 1233435600, "y" : 567}].

end_date

Description: report end date represented in unix time.

Example: 1256936400.

name

Description: report or branch name.

Examples: “Users”, “Load Average”.

report_type

Description: report type.

Allowed values: “trend”, “percentage”, “table”.

short_description

Description: short description of the report.

Example: “Logged in users”.

start_date

Description: report start date.

Example: 1230757200.

summarizations

Description: an array of available summarizations.

Example: [“day”, “week”, “month”].

summarize_by

Description: report summarization.

Allowed values: hour, day, week, month, year.

total_count

Description: the number of all report values.

Example: 123.

total_sum

Description: the sum of all report values.

Example: 239875.34.

type

Description: node or report type.

Allowed values: “branch”, “report” — for the node type; “trend”, “percentage” — for the report type.

units

Description: units of measure for the report.

Allowed values: “currency”, “fraction”, *empty value*.

url

Description: relative URL of the node.

Example: “/reports/users.json”

value

Description: report value.

Example: 4760.75.

x

Description: X-value on the graph in the report of type “trend”.

Example: 1230757200 (unix time).

y

Description: Y-value on the graph in the report of type “trend”.

Example: 123.

Authentication and Security

HTTPS should be used for safe communications between a client and a server. Basic Auth is used for the authentication.

Encoding

All data must be encoded in UTF-8.

Revision History

Date	Notes
2010-03-22	First version of the document.
2010-06-25	Mistakes in document