

opFlow API Reference

This page is deprecated

- [This page is deprecated](#)
- [Authentication](#)
 - [POST login \(authenticate\)](#)
 - [Request](#)
 - [Successful Response](#)
- [Common Parameters](#)
 - [Parameters](#)
- [TopN](#)
 - [GET TopN for time period](#)
 - [Required Parameters \(along with common parameters\)](#)
 - [GET TopN summarised by time period \(pie charts\)](#)
 - [Required Parameters \(along with common parameters\)](#)

Authentication

Authentication is required to access all methods listed below.

POST login (authenticate)

POST /cgi-omk/opFlow.pl

Authenticate to opFlow.

Request

Parameter	Description
auth_username	The username to authenticate with
auth_password	The password for the user

Successful Response

A cookie is created and sent with the response. This must be saved and passed with all requests below.

Common Parameters

Many of the parameters are common over all calls and are used when they make sense.

Parameters

Parameter	Description								
topn	Number of rows to return, any extra will be summarised into "Other" category								
dns	"true", "false" or empty. When "true" opData will convert the IP address into a name for display (when relevant, eg. flowEndPoints)								
summary	The column to summarise the values by. <table><tr><th>Possible Value</th><th>meaning</th></tr><tr><td>octets or bytes</td><td>Summarise octet column (so size of packets)</td></tr><tr><td>packets</td><td>Summarise by number of packets</td></tr><tr><td>flows</td><td>Summarise by number of flows</td></tr></table>	Possible Value	meaning	octets or bytes	Summarise octet column (so size of packets)	packets	Summarise by number of packets	flows	Summarise by number of flows
Possible Value	meaning								
octets or bytes	Summarise octet column (so size of packets)								
packets	Summarise by number of packets								
flows	Summarise by number of flows								
time_tag_start	Epoch time to start the time period								
time_tag_end	Epoch time to end the time period								

period	[Optional] - If provided and time_tag_start/time_tag_end are not, this will set time_tag_start/time_tag_end from the current time back period. If start/end are provided they will override. accepts m/h/d, eg. 15m, 2h, 3d
application	Filter by application given (when relevant)
port	Filter by port given (when relevant)
agent	Filter flows by specified agent
site_name	Filter flows by site
endpoint	Filter flows by endpoint (when relevant)

TopN

GET TopN for time period

GET /cgi-omk/opData.pl

This will return a structure

Required Parameters (along with common parameters)

Parameter	Description																		
act	<p>Tells opData which data model you would like to load, all return TopN + Other (if there are extra)</p> <table> <tr> <th>Possible value</th><th>Meaning</th></tr> <tr> <td>flowSummary</td><td>Summarise all flows for each time slice, returns 1 dataset with all flows included</td></tr> <tr> <td>flowEndPoints</td><td>Flows summarised by endpoint</td></tr> <tr> <td>flowAppSources</td><td>Flows summarised by App Sources</td></tr> <tr> <td>flowAppDestinations</td><td>Flows summarised by App Desitinations</td></tr> <tr> <td>flowApplications</td><td>Flows summarised by Application</td></tr> <tr> <td>flowTos</td><td>Flows summarised by TOS</td></tr> <tr> <td>flowTalkers</td><td>Flows summarised by Talker</td></tr> <tr> <td>flowListeners</td><td>Flows summarised by Listener</td></tr> </table>	Possible value	Meaning	flowSummary	Summarise all flows for each time slice, returns 1 dataset with all flows included	flowEndPoints	Flows summarised by endpoint	flowAppSources	Flows summarised by App Sources	flowAppDestinations	Flows summarised by App Desitinations	flowApplications	Flows summarised by Application	flowTos	Flows summarised by TOS	flowTalkers	Flows summarised by Talker	flowListeners	Flows summarised by Listener
Possible value	Meaning																		
flowSummary	Summarise all flows for each time slice, returns 1 dataset with all flows included																		
flowEndPoints	Flows summarised by endpoint																		
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flowApplications	Flows summarised by Application																		
flowTos	Flows summarised by TOS																		
flowTalkers	Flows summarised by Talker																		
flowListeners	Flows summarised by Listener																		
summarise	the size in seconds of each time slice, eg, 60 with flowEndPoints will summarise all records for each endpoint for each minute (so the dataset will have 1 record for every 60 seconds for each TopN endpoint)																		

Request example output:

```

{
  "data": [
    {
      "data": [
        797,
        10147,
        18322,
        36579,
        8059,
        43464,
        3658,
        18222,
        27292,
        4002,
        43059,
        3556,
        8689,
        36700,
        0,
        0
      ],
      "name": "Other",
      "type": "area"
    },
    {
      "data": [
        0,
        0,
        0,
        0,
        0,
        0,
        18554181,
        30147004,
        61861232,
        72973960,
        3795368,
        134633928,
        0,
        0,
        0,
        0
      ],
      "name": "ssh:server1.opmantek.com",
      "type": "area"
    }
  ],
  "func": "flowAppSources",
  "interval": 60000,
  "javascript_time_tag_start": [
    2014,
    10,
    "06",
    11,
    30,
    44,
    0
  ],
  "time_tag_end_label": "6-Nov-2014 11:45:44",
  "time_tag_start_label": "6-Nov-2014 11:30:44"
}

```

GET TopN summarised by time period (pie charts)

GET /cgi-omk/opData.pl

Required Parameters (along with common parameters)

Parameter	Description	
act	Tells opData which data model you would like to load, all return TopN + Other (if there are extra)	
	Possible value	Meaning
	topnFlows	Summarise all flows by endpoint/application
	topnEndPoints	Summarise all flows by endpoint
	topnApplications	Summarise all flows by Application

Example output:

```
{
  "data": [
    {
      "id": "192.168.1.1",
      "model": "topnEndPoints",
      "name": "server1.opmantek.com (192.168.1.1)",
      "y": 0.88
    },
    {
      "id": "Other",
      "model": "topnEndPoints",
      "name": "Other",
      "y": 0.12
    },
  ],
  "func": "topnEndPoints",
  "javascript_time_tag_start": [
    2014,
    10,
    "06",
    11,
    30,
    44,
    0
  ]
}
```