

# FlowGateway Analytics Import Stats API. v1.0

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# Overview

## Overview

The documentation pages in this section describe the RESTful APIs included with FlowGateway Product. It is assumed that the reader has practical knowledge of RESTful APIs, so the documentation does not go into detail about what REST is and how to use it. Instead the documentation focuses on what data can be accessed, how to configure and clear it.

The following operations can be performed via the API:

- Display FlowGateway Analytics based statistics for all client source devices

Details about REST resources can be found in the **Resources** section. This overview continues with how to run these API's.

## Authentication

All REST requests must be authenticated. The **Authentication** section of the Common API describes which authentication methods are presently supported.

## Resources

### Settings: Request FlowGateway Analytics Stats using Template Type A

Displays available FlowGateway analytics based stats.

```
GET https://{device}/api/mgmt.flowgateway_analytics/1.0/import_stats
```

#### Authorization

This request requires authorization.

#### Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "stats_type": string,
    "interval_type": string,
    "time_interval": number,
    "source_ip": string
  }
]
```

Example:

```
{
  "stats_type": "flows_per_minute",
  "interval_type": "minutes",
  "time_interval": 60,
  "source_ip": "10.x.x.x"
}
```

Property Name	Type	Description	Notes
<i>RequestedStats</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	FlowGateway Analytics stats request based on last n interval(seconds/minutes/hours/weeks/days/months)	
<i>RequestedStats[RequestedStats]</i>	<i>&lt;object&gt;</i>	Request second/minute/hour based statistics.	Optional
<i>RequestedStats[RequestedStats].stats_type</i>	<i>&lt;string&gt;</i>	flows_per_<second/minute/hour>	
<i>RequestedStats[RequestedStats].interval_type</i>	<i>&lt;string&gt;</i>	seconds/minutes/hours/weeks/days/months	
<i>RequestedStats[RequestedStats].time_interval</i>	<i>&lt;number&gt;</i>	<integer value> without quotes	
<i>RequestedStats[RequestedStats].source_ip</i>	<i>&lt;string&gt;</i>	Enter IPv4/IPv6 address here or leave this string as empty(includes all source devices).	

## Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "time": string,
    "source_ip": string,
    "n_flows": number,
    "n_bytes": number,
    "n_bad_bytes": number,
    "n_packets": number,
    "n_bad_packets": number,
    "peak_n_flows": string,
    "peak_n_bytes": string,
    "peak_n_packets": string
  }
]
```

Example:

```
[
  {
    "time": "2024-01-08 22:11:00+00:00",
    "source_ip": "10.x.x.x",
    "n_flows": 154,
    "n_bytes": 8448,
    "n_bad_bytes": 0,
    "n_packets": 20,
    "n_bad_packets": 0,
    "peak_n_flows": "60",
    "peak_n_bytes": "3088",
    "peak_n_packets": "4"
  },
  {
    "time": "2024-01-08 22:11:00+00:00",
    "source_ip": "10.x.x.x",
    "n_flows": 23677,
    "n_bytes": 1179508,
    "n_bad_bytes": 0,
    "n_packets": 827,
    "n_bad_packets": 0,
    "peak_n_flows": "1508",
    "peak_n_bytes": "75088",
    "peak_n_packets": "52"
  }
]
```

Property Name	Type	Description	Notes
<i>DisplayStats</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	List of FlowGateway analytics based statistics per source device basis or for all source devices.	
<i>DisplayStats[DisplayStats]</i>	<i>&lt;object&gt;</i>	FlowGateway analytics stats per source device or for all source devices.	Optional
<i>DisplayStats[DisplayStats].time</i>	<i>&lt;string&gt;</i>	UTC time	
<i>DisplayStats[DisplayStats].source_ip</i>	<i>&lt;string&gt;</i>	Source device IP address	
<i>DisplayStats[DisplayStats].n_flows</i>	<i>&lt;number&gt;</i>	Total number of flows	
<i>DisplayStats[DisplayStats].n_bytes</i>	<i>&lt;number&gt;</i>	Total number of bytes	
<i>DisplayStats[DisplayStats].n_bad_bytes</i>	<i>&lt;number&gt;</i>	Total number of bad bytes	
<i>DisplayStats[DisplayStats].n_packets</i>	<i>&lt;number&gt;</i>	Total number of packets	
<i>DisplayStats[DisplayStats].n_bad_packets</i>	<i>&lt;number&gt;</i>	Total number of bad packets	
<i>DisplayStats[DisplayStats].peak_n_flows</i>	<i>&lt;string&gt;</i>	Peak value for nflows	
<i>DisplayStats[DisplayStats].peak_n_bytes</i>	<i>&lt;string&gt;</i>	Peak value for nbytes	
<i>DisplayStats[DisplayStats].peak_n_packets</i>	<i>&lt;string&gt;</i>	Peak value for npackets	

## Settings: Request FlowGateway Analytics Stats using Template Type B

Displays available FlowGateway analytics based stats.

```
GET https://{device}/api/mgmt.flowgateway_analytics/1.0/import_stats
```

## Authorization

This request requires authorization.

## Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "stats_type": string,
    "start_time": string,
    "end_time": string,
    "source_ip": string
  }
]
```

Example:

```
{
  "stats_type": "flows_per_minute",
  "start_time": "23/08/2023 11:36:41",
  "end_time": "23/08/2023 13:36:41",
  "source_ip": ""
}
```

Property Name	Type	Description	Notes
<i>RequestedStats</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	FlowGateway Analytics stats request based on start time & end time	
<i>RequestedStats[RequestedStats]</i>	<i>&lt;object&gt;</i>	Request second/minute/hour based statistics.	Optional
<i>RequestedStats[RequestedStats].stats_type</i>	<i>&lt;string&gt;</i>	flows_per_<second/minute/hour>	
<i>RequestedStats[RequestedStats].start_time</i>	<i>&lt;string&gt;</i>	day/month/Year Hour:Minute:Second ex: 23/08/2023 11:36:41	
<i>RequestedStats[RequestedStats].end_time</i>	<i>&lt;string&gt;</i>	day/month/Year Hour:Minute:Second ex: 23/08/2023 13:36:41	
<i>RequestedStats[RequestedStats].source_ip</i>	<i>&lt;string&gt;</i>	Enter IPv4/IPv6 address here or leave this string as empty(includes all source devices).	

## Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "time": string,
    "source_ip": string,
    "n_flows": number,
    "n_bytes": number,
    "n_bad_bytes": number,
    "n_packets": number,
    "n_bad_packets": number,
    "peak_n_flows": string,
    "peak_n_bytes": string,
    "peak_n_packets": string
  }
]
```

Example:

```
[
  {
    "time": "2024-01-08 22:11:00+00:00",
    "source_ip": "10.x.x.x",
    "n_flows": 154,
    "n_bytes": 8448,
    "n_bad_bytes": 0,
    "n_packets": 20,
    "n_bad_packets": 0,
    "peak_n_flows": "60",
    "peak_n_bytes": "3088",
    "peak_n_packets": "4"
  },
  {
    "time": "2024-01-08 22:11:00+00:00",
    "source_ip": "10.x.x.x",
    "n_flows": 23677,
    "n_bytes": 1179508,
    "n_bad_bytes": 0,
    "n_packets": 827,
    "n_bad_packets": 0,
    "peak_n_flows": "1508",
    "peak_n_bytes": "75088",
    "peak_n_packets": "52"
  }
]
```

Property Name	Type	Description	Notes
<i>DisplayStats</i>	<array of <object>>	List of FlowGateway analytics based statistics per source device basis or for all source devices.	
<i>DisplayStats</i> [ <i>DisplayStats</i> ]	<object>	FlowGateway analytics stats per source device or for all source devices.	Optional
<i>DisplayStats</i> [ <i>DisplayStats</i> ].time	<string>	UTC time	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].source_ip	<string>	Source device IP address	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].n_flows	<number>	Total number of flows	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].n_bytes	<number>	Total number of bytes	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].n_bad_bytes	<number>	Total number of bad bytes	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].n_packets	<number>	Total number of packets	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].n_bad_packets	<number>	Total number of bad packets	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].peak_n_flows	<string>	Peak value for nflows	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].peak_n_bytes	<string>	Peak value for nbytes.	
<i>DisplayStats</i> [ <i>DisplayStats</i> ].peak_n_packets	<string>	Peak value for npackets	

## Settings: Request FlowGateway Analytics Stats using Template Type C

Displays available FlowGateway analytics based stats.

```
GET https://{device}/api/mgmt.flowgateway_analytics/1.0/import_stats
```

### Authorization

This request requires authorization.

### Request Body

Provide a request body with the following structure:

## JSON

```
[
  {
    "stats_type": string,
    "start_time": number,
    "end_time": number,
    "source_ip": string
  }
]
```

Example:

```
{
  "stats_type": "flows_per_minute",
  "start_time": 1702580400,
  "end_time": 1702584000,
  "source_ip": ""
}
```

Property Name	Type	Description	Notes
<i>RequestedStats</i>	<i>&lt;array of &lt;object&gt;&gt;</i>	FlowGateway Analytics stats request based on epoch start time & end time	
<i>RequestedStats[RequestedStats]</i>	<i>&lt;object&gt;</i>	Request second/minute/hour based statistics.	Optional
<i>RequestedStats[RequestedStats].stats_type</i>	<i>&lt;string&gt;</i>	flows_per_<second/minute/hour>	
<i>RequestedStats[RequestedStats].start_time</i>	<i>&lt;number&gt;</i>	epoch time as an <integer value> without quotes.	
<i>RequestedStats[RequestedStats].end_time</i>	<i>&lt;number&gt;</i>	epoch time as an <integer value> without quotes.	
<i>RequestedStats[RequestedStats].source_ip</i>	<i>&lt;string&gt;</i>	Enter IPv4/IPv6 address here or leave this string as empty(includes all source devices).	

## Response Body

On success, the server returns a response body with the following structure:

## JSON

```
[
  {
    "time": string,
    "source_ip": string,
    "n_flows": number,
    "n_bytes": number,
    "n_bad_bytes": number,
    "n_packets": number,
    "n_bad_packets": number,
    "peak_n_flows": string,
    "peak_n_bytes": string,
    "peak_n_packets": string
  }
]
```

Example:

```
[
  {
    "time": "2024-01-08 22:11:00+00:00",
    "source_ip": "10.x.x.x",
    "n_flows": 154,
    "n_bytes": 8448,
    "n_bad_bytes": 0,
    "n_packets": 20,
    "n_bad_packets": 0,
    "peak_n_flows": "60",
    "peak_n_bytes": "3088",
    "peak_n_packets": "4"
  },
  {
    "time": "2024-01-08 22:11:00+00:00",
    "source_ip": "10.x.x.x",
    "n_flows": 23677,
    "n_bytes": 1179508,
    "n_bad_bytes": 0,
    "n_packets": 827,
    "n_bad_packets": 0,
    "peak_n_flows": "1508",
    "peak_n_bytes": "75088",
    "peak_n_packets": "52"
  }
]
```

Property Name	Type	Description	Notes
<i>DisplayStats</i>	<array of <object>>	List of FlowGateway analytics based statistics per source device basis or for all source devices.	
<i>DisplayStats[DisplayStats]</i>	<object>	FlowGateway analytics stats per source device or for all source devices.	Optional
<i>DisplayStats[DisplayStats].time</i>	<string>	UTC time	
<i>DisplayStats[DisplayStats].source_ip</i>	<string>	Source device IP address	
<i>DisplayStats[DisplayStats].n_flows</i>	<number>	Total number of flows	
<i>DisplayStats[DisplayStats].n_bytes</i>	<number>	Total number of bytes	
<i>DisplayStats[DisplayStats].n_bad_bytes</i>	<number>	Total number of bad bytes	
<i>DisplayStats[DisplayStats].n_packets</i>	<number>	Total number of packets	
<i>DisplayStats[DisplayStats].n_bad_packets</i>	<number>	Total number of bad packets	
<i>DisplayStats[DisplayStats].peak_n_flows</i>	<string>	Peak value for nflows	
<i>DisplayStats[DisplayStats].peak_n_bytes</i>	<string>	Peak value for nbytes.	
<i>DisplayStats[DisplayStats].peak_n_packets</i>	<string>	Peak value for npackets	

## Error Codes

In the event that an error occurs while processing a request, the server will respond with appropriate HTTP status code and additional information in the response body:

```
{
  "error_id": "{error identifier}",
  "error_text": "{error description}",
  "error_info": {error specific data structure, optional}
}
```

The table below lists the possible errors and the associated HTTP status codes that may returned.

Error ID	HTTP Status	Comments
BAD_REQUEST	400	Invalid argument.
AUTH_REQUIRED	401	Authentication required.
AUTH_INVALID_CREDENTIALS	401	Make sure the user name is correct and type your password again. Be sure to use the correct case for the user name and password.
HTTP_INVALID_METHOD	405	Requested method is not available for this resource.
INTERNAL_ERROR	500	Internal error.