Flow Forwarding API. v1.0

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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 Flow Forwarding and Filter settings
- Configure Flow Forwarding and Filter settings
- Delete Flow Forwarding and Filter settings

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: Display Settings

Displays flow forwarding & flow forwarding filter settings.

GET https://{device}/api/mgmt.flow_forwarding/1.0/settings

Authorization

This request requires authorization.

Response Body

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

JSON

```
[
  {
    "dst_ip": string,
    "dst_port": number,
    "flow_type": string,
    "rewrite_src": boolean,
    "router_ip": [
      string
    ]
  }
]

Example:
[
  {
    "dst_ip": "10.1.1.1",
    "dst_port": 1234,
    "flow_type": "NetFlow",
    "rewrite_src": true,
    "router_ip": [
      "10.1.1.4",
      "10.1.1.5"
    ]
  },
  {
    "dst_ip": "10.1.1.2",
    "dst_port": 2345,
    "flow_type": "sFlow",
    "rewrite_src": false,
    "router_ip": [
      "10.1.1.6",
      "10.1.1.7"
    ]
  }
]
```

Property Name	Type	Description	Notes
CurrentSettings	*<array of <object>>*	List of flow forwarding and filter current settings.	
CurrentSettings[CurrentSetting]	*<object>*	Flow forwarding and filters.	Optional
CurrentSettings[CurrentSetting].dst_ip	*<string>*	Destination IP address.	
CurrentSettings[CurrentSetting].dst_port	*<number>*	Destination Port.	
CurrentSettings[CurrentSetting].flow_type	*<string>*	Flow Type.	
CurrentSettings[CurrentSetting].rewrite_src	*<boolean>*	Overwrite Source.	
CurrentSettings[CurrentSetting].router_ip	*<array of <string>>*	Flow Sources Filter.	
CurrentSettings[CurrentSetting].router_ip[item]	*<string>*	Source IP address.	Optional

Settings: Configure Settings

Configures flow forwarding & flow forwarding filter settings.

POST https://{device}/api/mgmt.flow_forwarding/1.0/settings

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "dst_ip": string,
    "dst_port": number,
    "flow_type": string,
    "rewrite_src": boolean,
    "router_ip": [
      string
    ]
  }
]

Example:
[
  {
    "dst_ip": "10.1.1.1",
    "dst_port": 1234,
    "flow_type": "NetFlow",
    "rewrite_src": true,
    "router_ip": [
      "10.1.1.4",
      "10.1.1.5"
    ]
  },
  {
    "dst_ip": "10.1.1.2",
    "dst_port": 2345,
    "flow_type": "sFlow",
    "rewrite_src": false,
    "router_ip": [
      "10.1.1.6",
      "10.1.1.7"
    ]
  }
]
```

Property Name	Type	Description	Notes
NewSettings	*<array of <object>>*	List of flow forwarding and filter new settings.	
NewSettings[NewSetting]	*<object>*	Flow forwarding and filters.	Optional
NewSettings[NewSetting].dst_ip	*<string>*	Destination IP address.	
NewSettings[NewSetting].dst_port	*<number>*	Destination Port.	
NewSettings[NewSetting].flow_type	*<string>*	Flow Type.	
NewSettings[NewSetting].rewrite_src	*<boolean>*	Overwrite Source.	
NewSettings[NewSetting].router_ip	*<array of <string>>*	Flow Sources Filter.	
NewSettings[NewSetting].router_ip[item]	*<string>*	Source IP address.	Optional

Response Body

On success, the server does not provide any body in the responses.

Settings: Delete Settings

Deletes flow forwarding & flow forwarding filter settings.

DELETE https://{device}/api/mgmt.flow_forwarding/1.0/settings

Authorization

This request requires authorization.

Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "dst_ip": string,
    "dst_port": number,
    "flow_type": string,
    "rewrite_src": boolean,
    "router_ip": [
      string
    ]
  }
]

Example:
[
  {
    "dst_ip": "10.1.1.1",
    "dst_port": 1234,
    "flow_type": "NetFlow",
    "rewrite_src": true,
    "router_ip": [
      "10.1.1.4",
      "10.1.1.5"
    ]
  },
  {
    "dst_ip": "10.1.1.2",
    "dst_port": 2345,
    "flow_type": "sFlow",
    "rewrite_src": false,
    "router_ip": [
      "10.1.1.6",
      "10.1.1.7"
    ]
  }
]
```

Property Name	Type	Description	Notes
DeleteSettings	*<array of <object>>*	List of Flow Forwarding and filter settings to be deleted.	
DeleteSettings[DeleteSetting]	*<object>*	Flow forwarding and filters.	Optional
DeleteSettings[DeleteSetting].dst_ip	*<string>*	Destination IP address.	
DeleteSettings[DeleteSetting].dst_port	*<number>*	Destination Port.	
DeleteSettings[DeleteSetting].flow_type	*<string>*	Flow Type.	
DeleteSettings[DeleteSetting].rewrite_src	*<boolean>*	Overwrite Source.	
DeleteSettings[DeleteSetting].router_ip	*<array of <string>>*	Flow Sources Filter.	
DeleteSettings[DeleteSetting].router_ip [item]	*<string>*	Source IP address.	Optional

Response Body

On success, the server does not provide any body in the responses.

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. |