

# Global SNMP API. v1.0

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# Overview

## Overview

The documentation pages in this section describe the RESTful APIs included with Riverbed SteelCentral 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 Global SNMP settings
- Configure Global SNMP settings
- Display Polling settings
- Configure Polling settings
- Display Default Credentials settings
- Configure Default Credentials settings
- Display Default Credentials by ID
- Configure Default Credentials by ID
- Delete Default Credentials by ID

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 all Global SNMP settings.

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

### Authorization

This request requires authorization.

### Response Body

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

```
JSON
```

```

{
  "polling_settings": {
    "polling_freq": number,
    "refresh_freq": number
  },
  "default_credentials": [
    {
      "id": number,
      "version": string,
      "sec_level": string,
      "username": string,
      "auth_proto": string,
      "auth_psswd": string,
      "auth_psswd_key": string,
      "auth_psswd_key_local": string,
      "priv_proto": string,
      "priv_psswd": string,
      "priv_psswd_key": string,
      "priv_psswd_key_local": string,
      "user_label": string,
      "community": string
    }
  ]
}

```

Example:

```

{
  "polling_settings": {
    "polling_freq": "0",
    "refresh_freq": "0"
  },
  "default_credentials": [
    {
      "id": 1,
      "version": "v1",
      "community": "*****",
      "user_label": "first"
    },
    {
      "id": 2,
      "version": "v2c",
      "community": "*****",
      "user_label": "second"
    }
  ]
}

```

Property Name	Type	Description	Notes
<i>Settings</i>	<object>	Object with Polling Settings and Default Credentials.	
<i>Settings.polling_settings</i>	<object>	Polling settings	
<i>Settings.polling_settings.polling_freq</i>	<number>		
<i>Settings.polling_settings.refresh_freq</i>	<number>		
<i>Settings.default_credentials</i>	<array of <object>>	List of default credentials	
<i>Settings.default_credentials[item]</i>	<object>		
<i>Settings.default_credentials[item].id</i>	<number>		
<i>Settings.default_credentials[item].version</i>	<string>	SNMP version, allowed ('v1','v2c','v3')	
<i>Settings.default_credentials[item].sec_level</i>	<string>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<i>Settings.default_credentials[item].username</i>	<string>	username, required for SNMP V3 only	
<i>Settings.default_credentials[item].auth_proto</i>	<string>	Authentication Protocol, only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_psswd</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_psswd_key</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_psswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_proto</i>	<string>	Privacy Protocol, only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_psswd</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_psswd_key</i>	<string>	Only applicable for SNMP V3	

<code>Settings.default_credentials[item].priv_pswd_key_local</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>Settings.default_credentials[item].user_label</code>	<code>&lt;string&gt;</code>	User label for credential	
<code>Settings.default_credentials[item].community</code>	<code>&lt;string&gt;</code>	Community string, ignore if SNMP version 3	

## Settings: Configure Settings

Configure all Global SNMP settings.

POST `https://{device}/api/mgmt.global_snmp/1.0/global_snmp`

### Authorization

This request requires authorization.

### Request Body

Provide a request body with the following structure:

#### JSON

```
{
  "polling_settings": {
    "polling_freq": number,
    "refresh_freq": number
  },
  "default_credentials": [
    {
      "id": number,
      "version": string,
      "sec_level": string,
      "username": string,
      "auth_proto": string,
      "auth_pswd": string,
      "auth_pswd_key": string,
      "auth_pswd_key_local": string,
      "priv_proto": string,
      "priv_pswd": string,
      "priv_pswd_key": string,
      "priv_pswd_key_local": string,
      "user_label": string,
      "community": string
    }
  ]
}
```

Example:

```
{
  "polling_settings": {
    "polling_freq": "0",
    "refresh_freq": "0"
  },
  "default_credentials": [
    {
      "id": 1,
      "version": "v1",
      "community": "*****",
      "user_label": "first"
    },
    {
      "id": 2,
      "version": "v2c",
      "community": "*****",
      "user_label": "second"
    }
  ]
}
```

Property Name	Type	Description	Notes
<code>Settings</code>	<code>&lt;object&gt;</code>	Object with Polling Settings and Default Credentials.	
<code>Settings.polling_settings</code>	<code>&lt;object&gt;</code>	Polling settings	
<code>Settings.polling_settings.polling_freq</code>	<code>&lt;number&gt;</code>		
<code>Settings.polling_settings.refresh_freq</code>	<code>&lt;number&gt;</code>		

<i>Settings.default_credentials</i>	<array of <object>>	List of default credentials	
<i>Settings.default_credentials[item]</i>	<object>		
<i>Settings.default_credentials[item].id</i>	<number>		
<i>Settings.default_credentials[item].version</i>	<string>	SNMP version, allowed ('v1','v2c','v3')	
<i>Settings.default_credentials[item].sec_level</i>	<string>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<i>Settings.default_credentials[item].username</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_proto</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_pswd</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_pswd_key</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].auth_pswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_proto</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_pswd</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_pswd_key</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].priv_pswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>Settings.default_credentials[item].user_label</i>	<string>	User label for credential	
<i>Settings.default_credentials[item].community</i>	<string>	Community string, ignore if SNMP version 3	

## Response Body

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

## Settings: Display Polling Settings

Displays Polling settings.

```
GET https://{device}/api/mgmt.global_snmp/1.0/global_snmp/polling
```

## Authorization

This request requires authorization.

## Response Body

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

JSON

```
{
  "polling_freq": number,
  "refresh_freq": number
}
```

Property Name	Type	Description	Notes
<i>PollingSettings</i>	<object>	Object with Polling Settings	
<i>PollingSettings.polling_freq</i>	<number>		
<i>PollingSettings.refresh_freq</i>	<number>		

## Settings: Configure Polling Settings

Configure Polling settings.

```
POST https://{device}/api/mgmt.global_snmp/1.0/global_snmp/polling
```

## Authorization

This request requires authorization.

## Request Body

Do not provide a request body.

## Response Body

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

JSON

```
{
  "polling_freq": number,
  "refresh_freq": number
}
```

Property Name	Type	Description	Notes
<i>PollingSettings</i>	<object>	Object with Polling Settings	
<i>PollingSettings.polling_freq</i>	<number>		
<i>PollingSettings.refresh_freq</i>	<number>		

## Settings: Display Default Credentials

Displays Default Credentials.

```
GET https://{device}/api/mgmt.global_snmp/1.0/global_snmp/default_credentials
```

## Authorization

This request requires authorization.

## Response Body

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

JSON

```
[
  {
    "id": number,
    "version": string,
    "sec_level": string,
    "username": string,
    "auth_proto": string,
    "auth_psswd": string,
    "auth_psswd_key": string,
    "auth_psswd_key_local": string,
    "priv_proto": string,
    "priv_psswd": string,
    "priv_psswd_key": string,
    "priv_psswd_key_local": string,
    "user_label": string
  }
]
```

Property Name	Type	Description	Notes
<i>DefaultCredentials</i>	<array of <object>>	List of default credentials	
<i>DefaultCredentials[item]</i>	<object>		
<i>DefaultCredentials[item].id</i>	<number>		
<i>DefaultCredentials[item].version</i>	<string>	SNMP version, allowed ('v1','v2c','v3')	
<i>DefaultCredentials[item].sec_level</i>	<string>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<i>DefaultCredentials[item].username</i>	<string>	Only applicable for SNMP V3	
<i>DefaultCredentials[item].auth_proto</i>	<string>	Only applicable for SNMP V3	
<i>DefaultCredentials[item].auth_psswd</i>	<string>	Only applicable for SNMP V3	
<i>DefaultCredentials[item].auth_psswd_key</i>	<string>	Only applicable for SNMP V3	
<i>DefaultCredentials[item].auth_psswd_key_local</i>	<string>	Only applicable for SNMP V3	

<code>DefaultCredentials[item].priv_proto</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_psswd</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_psswd_key</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_psswd_key_local</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].user_label</code>	<code>&lt;string&gt;</code>		

## Settings: Configure Default Credentials

Configure Default Credentials.

POST [https://{device}/api/mgmt.global\\_snmp/1.0/global\\_snmp/default\\_credentials](https://{device}/api/mgmt.global_snmp/1.0/global_snmp/default_credentials)

### Authorization

This request requires authorization.

### Request Body

Do not provide a request body.

### Response Body

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

JSON

```
[
  {
    "id": number,
    "version": string,
    "sec_level": string,
    "username": string,
    "auth_proto": string,
    "auth_psswd": string,
    "auth_psswd_key": string,
    "auth_psswd_key_local": string,
    "priv_proto": string,
    "priv_psswd": string,
    "priv_psswd_key": string,
    "priv_psswd_key_local": string,
    "user_label": string
  }
]
```

Property Name	Type	Description	Notes
<code>DefaultCredentials</code>	<code>&lt;array of &lt;object&gt;&gt;</code>	List of default credentials	
<code>DefaultCredentials[item]</code>	<code>&lt;object&gt;</code>	Credential details	
<code>DefaultCredentials[item].id</code>	<code>&lt;number&gt;</code>		
<code>DefaultCredentials[item].version</code>	<code>&lt;string&gt;</code>	SNMP version, allowed ('v1','v2c','v3')	
<code>DefaultCredentials[item].sec_level</code>	<code>&lt;string&gt;</code>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<code>DefaultCredentials[item].username</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].auth_proto</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].auth_psswd</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].auth_psswd_key</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].auth_psswd_key_local</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_proto</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_psswd</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_psswd_key</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].priv_psswd_key_local</code>	<code>&lt;string&gt;</code>	Only applicable for SNMP V3	
<code>DefaultCredentials[item].user_label</code>	<code>&lt;string&gt;</code>		

## Settings: Display Default Credentials by ID

Displays Default Credential by Id.

```
GET https://{device}/api/mgmt.global_snmp/1.0/global_snmp/default_credentials/<id>
```

## Authorization

This request requires authorization.

## Response Body

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

JSON

```
{
  "id": number,
  "version": string,
  "sec_level": string,
  "username": string,
  "auth_proto": string,
  "auth_psswd": string,
  "auth_psswd_key": string,
  "auth_psswd_key_local": string,
  "priv_proto": string,
  "priv_psswd": string,
  "priv_psswd_key": string,
  "priv_psswd_key_local": string,
  "user_label": string
}
```

Property Name	Type	Description	Notes
<i>response</i>	<i>&lt;object&gt;</i>	Object of Default Credential	
<i>response.id</i>	<i>&lt;number&gt;</i>		
<i>response.version</i>	<i>&lt;string&gt;</i>	SNMP version, allowed ('v1','v2c','v3')	
<i>response.sec_level</i>	<i>&lt;string&gt;</i>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<i>response.username</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.auth_proto</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.auth_psswd</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.auth_psswd_key</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.auth_psswd_key_local</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.priv_proto</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.priv_psswd</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.priv_psswd_key</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.priv_psswd_key_local</i>	<i>&lt;string&gt;</i>	Only applicable for SNMP V3	
<i>response.user_label</i>	<i>&lt;string&gt;</i>		

## Settings: Configure Default Credentials by ID

Configure Default Credentials.

```
POST https://{device}/api/mgmt.global_snmp/1.0/global_snmp/default_credentials/<id>
```

## Authorization

This request requires authorization.

## Request Body

Do not provide a request body.

## Response Body

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

JSON



```

{
  "id": number,
  "version": string,
  "sec_level": string,
  "username": string,
  "auth_proto": string,
  "auth_psswd": string,
  "auth_psswd_key": string,
  "auth_psswd_key_local": string,
  "priv_proto": string,
  "priv_psswd": string,
  "priv_psswd_key": string,
  "priv_psswd_key_local": string,
  "user_label": string
}

```

Property Name	Type	Description	Notes
<i>response</i>	<object>	Object of Default Credential	
<i>response.id</i>	<number>		
<i>response.version</i>	<string>	SNMP version, allowed ('v1','v2c','v3')	
<i>response.sec_level</i>	<string>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<i>response.username</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_proto</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_psswd</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_psswd_key</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_psswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_proto</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_psswd</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_psswd_key</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_psswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>response.user_label</i>	<string>		

## Settings: Delete Default Credentials by ID

Configure Default Credentials.

```
DELETE https://{device}/api/mgmt.global_snmp/1.0/global_snmp/default_credentials/<id>
```

### Authorization

This request requires authorization.

### Response Body

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

JSON

```

{
  "id": number,
  "version": string,
  "sec_level": string,
  "username": string,
  "auth_proto": string,
  "auth_psswd": string,
  "auth_psswd_key": string,
  "auth_psswd_key_local": string,
  "priv_proto": string,
  "priv_psswd": string,
  "priv_psswd_key": string,
  "priv_psswd_key_local": string,
  "user_label": string
}

```

Property Name	Type	Description	Notes
<i>response</i>	<object>	Object of Default Credential	
<i>response.id</i>	<number>		
<i>response.version</i>	<string>	SNMP version, allowed ('v1','v2c','v3')	

<i>response.sec_level</i>	<string>	Security level for SNMP V3, allowed values('no_auth/no_priv','auth/no_priv','auth/priv')	
<i>response.username</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_proto</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_pswd</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_pswd_key</i>	<string>	Only applicable for SNMP V3	
<i>response.auth_pswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_proto</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_pswd</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_pswd_key</i>	<string>	Only applicable for SNMP V3	
<i>response.priv_pswd_key_local</i>	<string>	Only applicable for SNMP V3	
<i>response.user_label</i>	<string>		

## 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.