

# Cisco IOS XE REST API Management Reference Guide

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## Chapter: Global Configuration Requirements

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## Resource Summary for Global Configuration

Resource	URL (BaseURL)	HTTP Method			
		GET	POST	PUT	DELETE
Banner	/api/v1/global/banner	Y	N	Y	N
Host name	/api/v1/global/host-name	Y	N	Y	N
Domain name	/api/v1/global/domain-name	Y	N	Y	N
Local users	/api/v1/global/local-users	Y	Y	N	N
	/api/v1/global/local-users/{username}	Y	Y	Y	Y
Logging	/api/v1/global/logging	Y	Y	N	N
	/api/v1/global/logging/{ip-address}	N	N	N	Y
	/api/v1/global/logging/{ip-address}_{transport}_{port}	Y	N	N	Y
Global running	/api/v1/global/running-config	Y	N	Y	N

configuration					
SNMP	/api/v1/global/snmp	Y	Y	N	N
	/api/v1/global/snmp/{ip-address}	Y	N	N	Y
TACACS	/api/v1/global/tacacs	Y	Y	N	N
	/api/v1/global/tacacs/{name}	Y	N	Y	Y
Syslog	/api/v1/global/syslog	Y	N	Y	N
Reload	/api/v1/global/reload	N	N	Y	N
Save configuration	/api/v1/global/save-config	N	N	Y	N
Save configuration autosave timer	/api/v1/global/autosave-timer	Y	N	Y	N
IPv6	/api/v1/global/ipv6/routing	Y	N	Y	N
CLI commands	/api/v1/global/cli	N	N	Y	N

## Banner Resource

### History

Release	Modification
IOS XE 3.11	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

### Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type: "object#banner"
exec	string	Optional	Exec mode message Providing an empty string cancels the property.
login	string	Optional	Login message Providing an empty string cancels the property.
motd	string	Optional	Message of the Day Providing an empty string cancels the property.

### JSON Representation

```
{
  "kind" : "object#banner",
  "exec" : "{string}",
  "login" : "{string}",
  "motd" : "{string}"
}
```

## Retrieve Banner

## Resource URI

Verb	URI
GET	/api/v1/global/banner

### Example

#### *JSON Request*

```
GET /api/v1/global/banner
Accept: application/json
```

#### *JSON Response*

```
200 OK
Content-Type: application/json
{
  "kind" : "object#banner"
  "exec" : "{string}",
  "login": "{string}",
  "motd" : "{string}"
}
```

## Modify Banner

### Resource URI

Verb	URI
PUT	/api/v1/global/banner

### Example

#### *JSON Request*

```
PUT /api/v1/global/banner
Content-Type: application/json
```

```
{
  "exec" : "{string}",
  "login": "{string}",
  "motd" : "{string}"
}
```

#### *JSON Response*

```
204 No Content
```

## Hostname Resource

The hostname resource represents the global configuration hostname property.

### History

Release	Modification
IOS XE 3.10	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

## Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type. Always “object#hostname”
host-name	string	Mandatory	router name

## Retrieve Device Hostname

### Resource URI

Verb	URI
GET	/api/v1/global/host-name

### Example

#### *JSON Request*

```
GET /api/v1/global/host-name
Accept: application/json
```

#### *JSON Response*

```
200 Ok
```

```
Content-Type: application/json
```

```
{
  "kind" : "object#host-name",
  "host-name": "{string}"
}
```

## Modify Device Hostname

### Resource URI

Verb	URI
PUT	/api/v1/global/host-name

### Example

#### *JSON Request*

```
PUT /api/v1/global/host-name
```

```
Content-Type: application/json
Accept: application/json
```

```
{
  "host-name": "eng-router"
}
```

#### *JSON Response*

```
200 Ok
```

```
Content-Type: application/json
```

```
{
  "host-name": "eng-router"
}
```

*JSON Response with no Response Body*

204 No Content

## Domain Name Resource

Represents the domain name property of the global configuration.

### History

Release	Modification
IOS XE 3.10	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

### Properties

Property	Type	Description
kind	string	Object type. Always “object#domain-name”
domain-name	string	Domain name

## Retrieve Domain Name

### Resource URI

Verb	URI
GET	/api/v1/global/domain-name

### Example

#### *JSON Request*

```
GET /api/v1/global/domain-name
Accept: application/json
```

#### *JSON Response*

200 OK

```
Content-Type: application/json
{
  "kind": "object#domain-name",
  "domain-name": "cisco.com"
}
```

## Modify Domain Name

### Resource URI

Verb	URI
PUT	/api/v1/global/domain-name

## Example

### JSON Request

```
PUT /api/v1/global/domain-name
Content-Type: application/json
Accept: application/json
```

```
{
  "domain-name": cisco.com
}
```

### JSON Response

204 No Content

## Users Resource

Users resource represents the collection of local users who are allowed to access the device.

### History

Release	Modification
IOS XE 3.10	Introduced for the CSR1000V platform
IOS XE 3.11	Added pw-type property
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

### Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type. Has fixed value "object#local-user"
username	string	Mandatory	Name of the user. Once created, cannot be modified.
password	string	Optional	Password.
privilege	number	Optional	Privilege level 0-15.
pw-type	number	Optional	IOS password type. Only type 0 and 7 are supported. For a cleartext password, this argument is either 0 or optional. <b>Note</b> : Because only type 0 and 7 are supported, switching from other IOS password types may not be possible. Those credentials may need to be deleted first, and new credentials created.

### JSON Representation

```
{
  "kind" : "object#local-user"
  "username" : "cisco",
  "password" : "ladf3434d",
  "pw-type" : 7,
  "privilege" : "15"
```

}

## Create User Name

### Resource URI

Verb	URI
POST	/api/v1/global/local-users

### Example

#### *JSON Request*

```
POST /api/v1/global/local-users
Accept: application/json
```

```
Content-Type: application/json
```

```
{
  "username": "jtod",
  "password" : "re1st2",
  "pw-type" : 7,
  "privilege": 15
}
```

#### *JSON Response*

```
201 Created
Location: http://host/api/v1/global/local-users/jtod
```

## Retrieve User Name or Password

### Resource URI

Verb	URI
GET	/api/v1/global/local-users/{user-name}

### Example

#### **JSON Request**

```
GET /api/v1/global/local-users/cisco
Accept: application/json
```

#### **JSON Response**

```
200 OK
Content-Type: application/json
```

```
{
  "kind" : "object#local-user"
  "username" : "cisco",
  "password" : "1adf3434d",
  "pw-type" : 7,
  "privilege": 15
}
```



## Retrieve All User Names

### Resource URI

Verb	URI
GET	/api/v1/global/local-users

### Properties for Retrieve All

Property	Type	Description
kind	string	Object type. Has fixed value "collection#local-user"
users	string	Array of user objects.

### Example

#### JSON Request

```
GET /api/v1/global/local-users
Accept: application/json
```

#### JSON Response

```
200 OK
```

```
Content-Type: application/json
```

```
{
  "kind": "collection#local-user"
  "users": [
    {
      "kind" : "object#local-user",
      "username" : "jtd",
      "pw-type" : 7,
      "privilege": 15
    },
    {
      "kind": "object#local-user",
      "username" : "marym",
      "pw-type" : 7,
      "privilege": 7
    }
  ]
}
```

## Modify User Attributes

### Resource URI

Verb	URI
PUT	/api/v1/global/local-users/{user-name}

### Example

#### JSON Request

```
PUT /api/v1/global/local-users/cisco
Content-Type: application/json

{
  "username" : "cisco",
  "password" : "ladf3434d",
  "pw-type" : 7,
  "privilege" : 15
}
```

*JSON Response*

204 No Content

## Delete a User Name

Resource URI

Verb	URI
DELETE	/api/v1/global/local-users/{user-name}

Example

*JSON Request*

```
DELETE /api/v1/global/local-users/marym
```

*JSON Response*

204 No Content

## Logging Resource

History

Release	Modification
IOS XE 3.11	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

### Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type. "object#logging"
ip-address	string	Mandatory	IP Address of the logging host
transport	string	Optional	Object type. "object#logging"
port	string	Optional	port of the logging host

### JSON Representation

```
{
  "kind" : "object#logging",
  "ip-address" : "1.1.1.1",
```

```
"transport" : "udp",  
"port" : 514  
}
```

## Create a Logging Object

### Example

#### JSON Request

```
POST /api/v1/global/logging  
Content-Type: application/json
```

```
{  
  "ip-address": "10.1.1.1",  
  "transport": "tcp",  
  "port": 1024  
}
```

#### JSON Response

```
201 Created  
Location: https://host/api/v1/global/logging/10.1.1.1_tcp_1024
```

## Retrieve a Logging Object

### Example

#### JSON Request

```
GET /api/v1/global/logging/10.1.1.1  
Accept: application/json
```

#### JSON Response

```
200 OK  
Content-Type: application/json
```

```
{  
  "kind" : "object#logging",  
  "ip-address" : "10.1.1.1",  
  "transport" : "udp",  
  "port" : 514  
}
```

## Retrieve All Logging Objects

### Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type. Always “collection#logging”
items	array	Mandatory	Array of object#logging

### JSON Representation

```
{  
  
  "kind" : "collection#logging",  
  "items" : [ {object#logging} ]  
}
```

## Example

### JSON Request

```
GET /api/v1/global/logging
Accept: application/json
```

### JSON Response

```
200 OK
Content-Type: application/json
```

```
{
  "kind" : "collection#logging",
  "items" : [
    {
      "kind" : "object#logging",
      "ip-address" : "10.1.1.1",
      "transport" : "udp",
      "port" : 514
    },
    {
      "kind" : "object#logging",
      "ip-address" : "10.1.1.2",
      "transport" : "tcp",
      "port" : 1024
    }
  ]
}
```

## Deleting a Logging Object

### Example

#### JSON Request

```
DELETE /api/v1/global/logging/10.1.1.1
```

#### JSON Response

```
204 No Content
```

## Running-Config Resource

The Running-Config resource represents the Cisco IOS running configuration. Using this operation, you invoke a PUT operation by passing the snapshot of the running configuration as the request body.



**Note** There is no JSON representation for this resource. It supports only a text/plain representation that corresponds to IOS text configuration. GET and PUT operations correspond to Export and Import IOS actions.

### History

Release	Modification
IOS XE 3.10	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

# Retrieving or Exporting the Running Configuration

## Resource URI

Verb	URI
GET	/api/v1/global/running-config

## Example

### *JSON Request*

```
GET /api/v1/global/running-config
Accept: application/json
```

### *JSON Response*

200 OK

Content-Type: "text/plain"

```
!
! Last configuration change at 16:07:15 IST Fri Jun 15 2012
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Router
!
```

# Import the Running Configuration



**Note** The running configuration file cannot contain a self-signed certificate. If the CSR already has a self-signed certificate, then the configuration file being imported cannot have a self-signed certificate unless the self-signed certificate is removed from CSR first.

## Resource URI

Verb	URI
PUT	/api/v1/global/running-config

## Example

### *JSON Request*

```
PUT /api/v1/global/running-config
```

Content-Type: "text/plain"

```
!
! Last configuration change at 16:07:15 IST Fri Jun 15 2012
version 15.2
service timestamps debug datetime msec
```

```
service timestamps log datetime msec
no service password-encryption
!
hostname Router
!
```

JSON Response

204 No Content

# SNMP Server Resource

## History

Release	Modification
IOS XE 3.11	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

## Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type. “object#snmp”
ip-address	string	Mandatory	IP Address of the SNMP server
community-string	string	Mandatory	SNMPv1/v2 community-string or SNMPv3 user name

## JSON Representation

```
{
  "kind" : "object#snmp",
  "ip-address" : {string},
  "community-string" : {string}
}
```

# Create SNMP Object

## Example

JSON Request

```
POST /api/v1/global/snmp
Content-Type: application/json
```

```
{
  "ip-address" : "10.1.1.1",
  "community-string" : "cisco123"
}
```

JSON Response

201 Created

Location: [https://host/api/v1/global/snmp/10.1.1.1\\_cisco123](https://host/api/v1/global/snmp/10.1.1.1_cisco123)

## Retrieve SNMP Object

### Example

#### JSON Request

```
GET /api/v1/global/snmp/10.1.1.1_abc123
Accept: application/json
```

#### JSON Response

```
200 OK
Content-Type: application/json
```

```
{
  "kind" : "object#snmp",
  "ip-address" : "10.1.1.1",
  "community-string" : "abc123"
}
```

## Retrieve All SNMP Objects

### Properties for Retrieve All

Property	Type	Description
kind	string	Object type. Always “collection#snmp”
items	array	Array of object#snmp

### JSON Representation

```
{
  "kind" : "collection#snmp",
  "items" : [ {object#snmp} ]
}
```

### Example

#### JSON Request

```
GET /api/v1/global/snmp
Accept: application/json
```

#### JSON Response

```
200 OK
Content-Type: application/json
```

```
{
  "kind" : "collection#snmp",
  "items" : [
    {
      "kind": "object#snmp",
      "ip-address": "10.1.1.1",
      "community-string": "abc123"
    },
    {
```

```
"kind": "object#snmp",
"ip-address": "10.1.1.2",
"community-string": "abc123"
}
}
```

## Delete SNMP Object

### Example

#### JSON Request

```
DELETE /api/v1/global/snmp/10.1.1.1_abc123
```

#### JSON Response

204 No Content

## TACACS Server Resource

### History

Release	Modification
IOS XE 3.11	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

### Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type. "object#tacacs"
name	string	Mandatory	Name of TACAS server
ip-address	string	Mandatory	IP Address of the TACACS server
key	String	Optional	key <b>Note</b> : This key will not be returned in the GET API for security reasons.

### JSON Representation

```
{
  "kind" : "object#tacacs",
  "name" : {string},
  "ip-address": {string},
  "key": {string}
}
```

## Create TACACS Server

### Example

#### JSON Request



```
POST /api/v1/global/tacacs
Content-Type: application/json
```

```
{
  "name" : "primary",
  "ip-address" : "10.1.1.1",
  "key" : "cisco123"
}
```

### *JSON Response*

```
201 Created
Location: https://host/api/v1/global/tacacs/primary
```

## Retrieve TACACS Server

### Example

#### *JSON Request*

```
GET /api/v1/global/tacacs/primary
Accept: application/json
```

#### *JSON Response*

```
200 OK
Content-Type: application/json
```

```
{
  "kind" : "object#tacacs",
  "name" : "primary",
  "ip-address": "10.1.1.1"
}
```

## Retrieve All TACACS Servers

### Properties for Retrieve All

Property	Type	Description
kind	string	Object type. Always “collection#tacacs”
items	array	Array of object#tacacs

### JSON Representation for Retrieve All

```
{
  "kind" : "collection#tacacs",
  "items" : [ {object#tacacs} ]
}
```

### Example

#### *JSON Request*

```
GET /api/v1/global/tacacs
Accept: application/json
```

#### *JSON Response*

```
200 OK
Content-Type: application/json

{
  "kind" : "collection#tacacs",
  "items" : [
    {
      "kind" : "object#tacacs",
      "name" : "primary",
      "ip-address": "10.1.1.1"
    },
    {
      "kind" : "object#tacacs",
      "name" : "secondary",
      "ip-address": "10.1.1.2"
    }
  ]
}
```

## Modify TACACS Server

### Example

```
JSON Request

PUT /api/v1/global/tacacs/primary
Content-Type: application/json

{
  "ip-address" : "10.1.1.1",
  "key" : "cisco123"
}
```

```
JSON Response

204 No Content
```

## Delete TACACS Server

### Example

```
JSON Request

DELETE /api/v1/global/tacacs/primary

JSON Response

204 No Content
```

## Syslog Resource

This resource is used to retrieve the CSR logs. The Properties table describes the fields in the show processes cpu output.

### History

Release	Modification

IOS XE 3.10	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

## Properties

Field	Type	Description
kind	string	Must be "object#syslog-buffer"
messages	string	Syslog messages

## JSON Representation

```
{
  "kind": "object#syslog-buffer",
  "messages": "{string}"
}
```

## Retrieve the Syslog

### Example

#### *JSON Request*

```
GET /api/v1/global/syslog
```

```
Accept: application/json
```

#### **JSON Response**

```
200 OK
```

```
Content-Type: application/json
```

```
{
  "kind" : "object#syslog-buffer",
  "messages": "{string}"
}
```

## Reload Resource

Reloads/reboots the router after a specified interval, up to 60 minutes.

### History

Release	Modification
IOS XE 3.12	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms

## Properties

Property	Type	Required for POST and PUT	Description
minutes	number	Mandatory	Reloads after the specified interval in minutes. Range: 0 to 60

A value of 0 indicates an immediate reload and will terminate the REST HTTP session.

### JSON Representation

```
{
  "minutes": {number}
}
```

## Reload Router

### Resource URI

Verb	URI
PUT	/api/v1/global/reload

### Example

#### JSON Request

```
PUT /api/v1/global/reload
Content-Type: application/json
```

```
{
  "minutes" : 5
}
```

#### JSON Response

```
204 No Content
```

## Saving the REST API Configuration

This resource saves the REST API configuration file.

### History

Release	Modification
IOS XE 3.13	Introduced for the CSR1000V platform
IOS XE 3.14	Introduced for ASR1001-X and ASR1002-X platforms The following API is not supported: /api/v1/global/autosave-timer

Saving the REST API configuration file (IOS write memory CLI command) introduces a delay of a few seconds, depending on the size of the configuration file. To reduce the impact that the write memory command has on the REST API performance, the configuration is saved at a fixed time interval.

- save-config API  
Save the REST API configuration file. See [Save REST API Configuration File](#).
- autosave-timer API  
Configure or retrieve the autosave interval. See [Configure the Autosave Timer Interval](#).

The time interval is also configurable using a new CLI based on the restful-api CLI command.

# Save REST API Configuration File

## Resource URI

Verb	URI
PUT	/api/v1/global/save-config

## Example

### JSON Request

```
PUT /api/v1/global/save-config
Content-Type: application/json
```

### JSON Response

204 No Content

# Configure the Autosave Timer Interval

## Properties

Property	Type	Required for POST and PUT	Description
timeout	integer	Mandatory	Interval setting from 30 to 300 seconds

## JSON Representation

```
{
  "timeout": {integer}
}
```

## Resource URI

Verb	URI
PUT	/api/v1/global/autosave-timer
See Historyfor platform limitations.	

## Example

### JSON Request

```
PUT /api/v1/global/autosave-timer
Content-Type: application/json
```

```
{
  "timeout": 30
}
```

### JSON Response

204 No Content

# Retrieve the Autosave Timer Interval

## Resource URI

Verb	URI
GET	/api/v1/global/autosave-timer
See Historyfor platform limitations.	

## Example

### JSON Request

```
GET /api/v1/global/autosave-timer
```

### JSON Response

```
200 ok
```

```
Content-type: application/json
```

```
{ "timeout" : 30}
```

## IPv6 Resource

### History

Release	Modification
IOS XE 3.16	Introduced for the CSR1000V platform

### Properties

Property	Type	Required for POST and PUT	Description
kind	string	Not applicable	Object type: " object#ipv6-routing"
unicast	boolean	Optional	Enables the forwarding of IPv6 unicast datagrams
multicast	boolean	Optional	Enables the forwarding of IPv6 multicast datagrams

### JSON Representation

```
{  
  "kind": "object#ipv6-routing",  
  "unicast": {boolean},  
  "multicast": {boolean}  
}
```

## Support for Any CLI

This resource can be used to configure any CLI through the REST API.

### History

Release	Modification
IOS XE 3.16	Introduced for the CSR1000V platform

## Properties

Property	Type	Required for POST and PUT	Description
config	string	Optional	CLI to be applied in the config mode
exec	string	Optional	CLI to be applied in the exec mode
show	string	Optional	CLI to be run to show the results

## JSON Representation

```
{
  "config": "string",
  "exec": "string",
  "show": "string"
}
```

## Configure a CLI in "config" Mode

### Resource URI

Verb	URI
PUT	/api/v1/global/cli

### Example

#### JSON Request

```
PUT /api/v1/global/cli
Content-Type: application/json
```

```
{
  "config": "interface lisp0"
}
```

#### JSON Response

```
204 No Content
```

## Configure Multiple CLIs in "config" Mode

Separate multiple CLIs with \n.

### Resource URI

Verb	URI
PUT	/api/v1/global/cli

### Example

#### JSON Request

```
PUT /api/v1/global/cli
```

```
Content-Type: application/json
```

```
{
"config": "crypto ssl proposal SSL_PROP \n protection rsa-aes128-sha1"
}
```

### JSON Response

204 No Content

## Configure a CLI to Show Output

Resource URI

Verb	URI
PUT	/api/v1/global/cli

### Example

#### *JSON Request*

```
PUT /api/v1/global/cli
```

```
Content-Type: application/json
```

```
{
"show": " privilege"
}
```

### JSON Response

200 OK

```
Content-Type: application/json
```

```
{
"kind": "object# cli-results",
"results": "Current privilege level is 15"
}
```

## Configure Multiple CLIs in "exec" Mode

Separate multiple CLIs with \n.

Resource URI

Verb	URI
PUT	/api/v1/global/cli

### Example

#### *JSON Request*

```
PUT /api/v1/global/cli
```

```
Content-Type: application/json
```



```
{  
  "exec": " ping 1.1.1.1"  
}
```

### JSON Response

200 OK

Content-Type: application/json

```
{  
  "kind": "object# cli-results",  
  "results": "Type escape sequence to abort.\nSending 5, 100-byte ICMP Echos to 1.1.1.1, timeout  
is 2 seconds:\n.....\nSuccess rate is 0 percent (0/5)"  
}
```

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