

# SonicWall® SonicOS API 6.5.1

Reference



# Contents

<b>About SonicOS API</b> .....	<b>5</b>
SonicOS API Function .....	5
Enabling through the Management Interface .....	5
Enabling through the CLI .....	6
Supported Request Methods .....	6
Supported HTTP Headers .....	6
Supported HTTP MIME Types .....	7
Examples .....	7
Status and Error Representation .....	9
Client Authentication .....	11
Endpoint .....	11
HTTP Basic Authentication .....	12
Challenge-Handshake Authentication (CHAP) .....	12
Examples .....	13
Example - Commit Pending Configuration .....	13
Example - Address Object API Calls .....	15
<b>API: Config - Pending</b> .....	<b>17</b>
About Modifying Configuration API .....	17
Endpoint .....	17
Schema Structure .....	17
Schema Attributes .....	18
Examples .....	18
GET Pending Changes (Unchanged) .....	18
GET Pending Changes .....	18
POST Pending Changes .....	19
<b>API: Restart</b> .....	<b>20</b>
About Restarting API .....	20
Endpoint .....	20
Schema Structure .....	20
Schema Attributes .....	20
Example .....	21
<b>API: Address Objects – IPv4</b> .....	<b>22</b>
Endpoint .....	22
Schema Structure .....	22
Object: Address Object .....	22
Collection: Address Object .....	23
Schema Attributes .....	23
<b>API: Address Objects – IPv6</b> .....	<b>26</b>
Endpoint .....	26
Schema Structure .....	26

Object: Address Object .....	26
Collection: Address Objects .....	27
Schema Attributes .....	27
<b>API: Address Objects – MAC .....</b>	<b>30</b>
Endpoint .....	30
Schema Structure .....	30
Object: Address Object .....	30
Collection: Address Object .....	31
Schema Attributes .....	31
<b>API: Address Objects – FQDN .....</b>	<b>33</b>
Endpoint .....	33
Schema Structure .....	33
Object: Address Object .....	33
Collection: Address Object .....	34
Schema Attributes .....	34
<b>API: Address Groups — IPv4 .....</b>	<b>36</b>
Endpoint .....	36
Schema Structure .....	36
Object: Address Group .....	36
Collection: Address Group .....	37
Schema Attributes .....	37
<b>API: Address Groups — IPv6 .....</b>	<b>40</b>
Endpoint .....	40
Schema Structure .....	40
Object: Address Group .....	40
Collection: Address Group .....	41
Schema Attributes .....	42
<b>API: Schedule Objects .....</b>	<b>45</b>
Endpoint .....	45
Schema Structure .....	45
Object: Schedule .....	45
Collection: Schedule .....	46
Schema Attributes .....	46
<b>API: Service Objects .....</b>	<b>52</b>
Endpoint .....	52
Schema Structure .....	52
Object: Service Object .....	52
Collection: Service Object .....	53
Schema Attributes .....	53
<b>API: Service Groups .....</b>	<b>57</b>
Endpoint .....	57
Schema Structure .....	57

Object: Service Group .....	57
Collection: Service Group .....	58
Schema Attributes .....	58
<b>API: Zones .....</b>	<b>60</b>
Endpoint .....	60
Schema Structure .....	60
Object: Zone .....	60
Collection: Zone .....	62
Schema Attributes .....	62
<b>API: DNS .....</b>	<b>83</b>
Endpoint .....	83
Schema Structure .....	83
Object: DNS .....	83
Schema Attributes .....	84
<b>API: Interfaces – IPv4 .....</b>	<b>88</b>
Endpoint .....	88
Schema Structure .....	88
Object: Interface – IPv4 .....	88
Collection: Interface – IPv4 .....	90
Schema Attributes .....	90
<b>API: NAT Policies – IPv4 .....</b>	<b>99</b>
Endpoint .....	99
Schema Structure .....	99
Object: NAT Policies – IPv4 .....	99
Collection: NAT Policies – IPv4 .....	101
Schema Attributes .....	101
<b>API: NAT Policies – IPv6 .....</b>	<b>109</b>
Endpoint .....	109
Schema Structure .....	109
Object: NAT Policies – IPv6 .....	109
Schema Attributes .....	110
<b>API: NAT Policies – NAT64 .....</b>	<b>117</b>
Endpoint .....	117
Schema Structure .....	117
Object: NAT Policies – NAT64 .....	117
Collection: NAT Policies – NAT64 .....	118
Schema Attributes .....	118
<b>API: Access Rules – IPv4 .....</b>	<b>123</b>
Endpoint .....	123
Schema Structure .....	123
Object: Access Rules – IPv4 .....	123
Collection: Access Rules – IPv4 .....	125

Schema Attributes .....	125
<b>API: Access Rules – IPv6 .....</b>	<b>137</b>
Endpoint .....	137
Schema Structure .....	137
Object: Access Rules – IPv6 .....	137
Collection: Access Rules – IPv6 .....	139
Schema Attributes .....	139
<b>API: Route Policies – IPv4 .....</b>	<b>151</b>
Endpoint .....	151
Schema Structure .....	151
Object: Route Policies – IPv4 .....	151
Collection: Route Policies – IPv4 .....	152
Schema Attributes .....	152
<b>API: Route Policies – IPv6 .....</b>	<b>158</b>
Endpoint .....	158
Schema Structure .....	158
Object: Route Policies – IPv6 .....	158
Collection: Route Policies – IPv6 .....	159
Schema Attributes .....	159
<b>SonicWall Support .....</b>	<b>164</b>
About This Document .....	165

# About SonicOS API

- [SonicOS API Function](#) on page 5
  - [Enabling through the Management Interface](#) on page 5
  - [Enabling through the CLI](#) on page 6
- [Supported Request Methods](#) on page 6
  - [Supported HTTP Headers](#) on page 6
  - [HTTP Status Codes](#) on page 9
  - [Status and Error Representation](#) on page 9
- [Client Authentication](#) on page 11
  - [HTTP Basic Authentication](#) on page 12
- [Examples](#) on page 13

## SonicOS API Function

SonicOS API provides an alternative to the SonicOS Command Line Interface (CLI) for configuring selected functions.

SonicOS API is disabled by default in SonicOS. Any attempts to access SonicOS API while it is disabled results in an HTTP 403 Forbidden error. To use the SonicOS API, you must enable it, either through the SonicOS Management Interface or from the CLI.

### Topics:

- [Enabling through the Management Interface](#) on page 5
- [Enabling through the CLI](#) on page 6

## Enabling through the Management Interface

### *To enable SonicOS API through the management interface:*

- 1 Navigate to **MANAGE | Network > Appliance | Base Settings**.
- 2 Scroll to the **SonicOS API** section.
- 3 Select **Enable SonicOS API**.
- 4 Click **Accept**.

# Enabling through the CLI

Starting at the `config#` prompt:

```
config(<serial number>)# administration
(config-administration)# sonicos-api
(config-administration)# commit
```

## Supported Request Methods

SonicOS API utilizes four of the methods defined in the HTTP protocol (RFC 7231 and RFC 5789) to create, read, update and delete (CRUD) resources. [Supported HTTP request methods](#) describes the supported HTTP methods.

### Supported HTTP request methods

HTTP method	Description
GET	Retrieves the specified resource or collection of resources. GET is a read-only operation that does not alter appliance state or configuration. A GET operation should not contain a request-body.
POST	Submits data to be processed by the specified resource or collection of resources. In most cases, the POST verb is used by SonicOS APIs to create and add a resource to a collection of resources (for example, add a new MAC address-object to collection of objects).
PUT	Updates the specified resource. The data included in the PUT request-body replaces the previous configuration.
DELETE	Deletes the specified resource or collection of resources.

### Supported HTTP header request and response formats

Type	Example
Text/plain	GET /api/sonicos/address-objects/mac Accept: text/plain
Application/JSON	POST /api/sonicos/address-objects/mac Content-type: application/json Accept: application/json { "address_object": { "mac": { "name": "001122334455" , "address": "001122334455" , "multi_homed": true , "zone": "LAN" } } }

## Supported HTTP Headers

<b>Content-type</b>	Specifies the format (MIME type) of the request body (input).
<b>Accept</b>	Specifies the format of the response body (output).

# Supported HTTP MIME Types

SonicOS supports these HTTP MIME types:

- Text/plain
- Application/JSON

These HTTP headers define the request and response format:

- **Content-type** – Specifies the format (MIME type) of the request body (input)
- **Accept** – Specifies the format of the response body (output)

 **NOTE:** The headers can be used to obtain mixed input/output. See examples below for reference.

## Examples

Topics:

- [Application/JSON](#) on page 7
- [Text/Plain](#) on page 8

## Application/JSON

When specified, the request and/or response body is expected to be in SonicOS API JSON format.

### Request

```
POST /api/sonicos/address-objects/mac
Content-type: application/json
Accept: application/json
```

```
{
  "address_object": {
    "mac": {
      "name": "001122334455"
      , "address": "001122334455"
      , "multi_homed": true
      , "zone": "LAN"
    }
  }
}
```

### Response

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
```

```
{
  "status": {
    "success": true
    , "cli": {
      "depth": 1
      , "mode": "config_mode"
      , "configuring": true
    }
  }
}
```



```
        , "pending_config": true
        , "restart_required": "NONE"
    }
    , "info": [
        { "level": "info", "code": "E_OK", "message": "Success." }
    ]
}
}
```

## Text/Plain

When specified, the request and/or response body is expected to be in SonicOS CLI plain-text command format.

### Topics:

- [Request 1](#) on page 8
- [Request 2](#) on page 8

## Request 1

```
GET /api/sonicos/address-objects/mac
Accept: text/plain
```

### Response

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: text/plain; charset=UTF-8

address-object mac example address 001122334455
    zone LAN
    multi-homed
    exit
```

## Request 2

```
POST /api/sonicos/direct/cli
Content-type: text/plain
Accept: application/json
```

```
address-object mac example address 001122334455
    zone LAN
    multi-homed
    exit
```

### Response

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
```

```
{
  "status": {
    "success": true
  },
  "cli": {
    "depth": 1
    , "mode": "config_mode"
    , "configuring": true
  }
}
```

```

    , "pending_config": true
    , "restart_required": "NONE"
  }
  , "info": [
    { "level": "info", "code": "E_OK", "message": "Success." }
  ]
}
}
}

```

## Status and Error Representation

All plain text output from the last backend CLI command executed is captured and returned back to the client. If the command executed was not a `show` command and the requested operation succeeded, then the response body is empty. This is consistent with the CLI when executing a command via SSH or the serial console in that status is only rendered to the console upon error.

A JSON status object is guaranteed to be returned in the response body when performing a POST, PUT, or DELETE operation or upon error(s) encountered when processing a request.

### Topics:

- [HTTP Status Codes](#) on page 9
- [Application/JSON](#) on page 10

## HTTP Status Codes

SonicOS API uses standard HTTP status codes to report success or failure when servicing a request.

### HTTP Status Codes

Code	Status Text	Description
200	OK	The request succeeded.
400	Bad Request	An invalid request was submitted. Verify that the request URI is correct and that the request body is as expected.
401	Not Authorized	The user is unauthenticated or lacks the required privileges for the operation requested.
403	Forbidden	The request was understood by the server but denied. The response body notes the reason why the request was denied.
404	Not Found	The resource specified was not found.
405	Method Not Allowed	The HTTP verb specified is not allowed or supported by the resource specified.
406	Not Acceptable	The MIME type specified in the HTTP <code>Content-type</code> and/or <code>Accept</code> header is not supported.
413	Request body too large	Maximum size of the request body was exceeded.
414	Request URL too long	The request URL exceeded the maximum size allowed or contains extra/unknown parameters (directories).
500	Internal Server Error	The request failed due to an internal server error. The response body should note the reason why the request failed.
503	No resources	Maximum number of sessions was exceeded.

# Application/JSON

A JSON status object is guaranteed to be returned in the response body when performing a POST, PUT, or DELETE operation or upon error(s) encountered when processing a request.

## Topics:

- [Schema Structure](#) on page 10
- [Schema Attributes](#) on page 10

## Schema Structure

```
{
  "status": {
    "success": {boolean}
    , "cli": {
      "depth": {number}
      , "mode": "{string}"
      , "command": "{string}"
      , "configuring": {boolean}
      , "pending_config": {boolean}
      , "restart_required": "{string}"
    }
    , "info": [
      { "level": "{string}", "code": "{string}", "message": "{string}" }
      ...
    ]
  }
}
```

## Schema Attributes

### Schema attributes

Attribute	Type	Description
status	object	Status object.
status.success	boolean (true false)	Boolean success flag. Refer to the <code>status.info</code> array for more detailed information as to what caused the error if the success flag is false.
status.cli	object	CLI status. <b>NOTE:</b> This attribute is included only when an API sent one or more commands to the CLI backend.
status.cli.depth	number (uint8)	Current mode depth of the CLI: <ul style="list-style-type: none"><li>• 0 = top-level mode</li><li>• &gt;= 1 config mode</li></ul>
status.cli.mode	string	Name of the current mode.
status.cli.command	string	Command last executed. <b>NOTE:</b> This attribute is only included upon command error(s).
status.cli.configuring	boolean (true false)	Boolean configuring flag. Should always be true upon one or more consecutive POST, PUT or DELETE API calls that modify the configuration.

## Schema attributes

Attribute	Type	Description
<code>status.cli.pending_config</code>	boolean (true false)	Boolean pending-config flag. Should always be true upon one or more consecutive POST, PUT or DELETE API calls that modify the configuration. This flag should be cleared once any/all pending changes are committed (saved).
<code>status.cli.restart_required</code>	string	Appliance restart status. To take effect, some configuration changes require an appliance restart. These values indicate the type of restart needed: <ul style="list-style-type: none"><li>• NONE</li><li>• APPLIANCE</li><li>• CHASSIS</li><li>• CHASSIS_SHUTDOWN</li><li>• ALL_BLADES</li></ul>
<code>status.info</code>	array	Informational message(s).
<code>status.info.level</code>	string	Status level: info, warning, error.
<code>status.info.code</code>	string	Status code. If success, E_OK is returned, else E_{XXX} where XXX = error code.
<code>status.info.message</code>	string	Status message.

## Client Authentication

SonicOS API currently offers two mechanisms for client authentication:

- HTTP Basic Authentication (RFC 2617)
- Challenge-Handshake Authentication (CHAP)

Regardless of the authentication mechanism used, only:

- A single administrator can manage (modify configuration) at any given time. This remains true regardless of where an admin logged in (web management UI, CLI, GMS, or SonicOS API).
- Users with full admin privileges are allowed to access SonicOS API.
- A single SonicOS API session is currently allowed.

### Topics:

- [Endpoint](#) on page 11
- [HTTP Basic Authentication](#) on page 12
- [Challenge-Handshake Authentication \(CHAP\)](#) on page 12

## Endpoint

Both authentication mechanisms share the same endpoint for client login and logout.

Endpoint	HTTP Method & Body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/auth</code>	Empty	Empty	—	Empty

# HTTP Basic Authentication

HTTP Basic Authentication is the simplest method for client authentication as it does not require cookies, session identifiers, etc. HTTP Basic Authentication uses the standard Authentication HTTP header to pass user credentials between the client and server. Because HTTP Basic Authentication provides no means for protecting the confidentiality of a user's credentials, SonicOS API requires user credentials to be transmitted over HTTPS.

For SonicOS API HTTP Basic Authentication, use the Linux command-line `curl` command with the `-u` option:

- Login:

```
curl -k -i -u admin:password -X POST https://a.b.c.d/api/sonicos/auth
```

- Logout:

```
curl -k -i -X DELETE https://a.b.c.d/api/sonicos/auth
```

## Challenge-Handshake Authentication (CHAP)

In addition to HTTP Basic Authentication, SonicOS API supports the same CHAP-style authentication mechanism used by both the SonicOS Management Interface and GMS for client authentication.

Clients must first perform a CHAP challenge initiate request by invoking a call to `GET /api/sonicos/auth`:

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
```

```
{
  "id": "{string}",
  "challenge": "{string}"
}
```

<b>id:</b>	Type:	string (hexadecimal number)
	Description:	CHAP ID
	Example:	0b
<b>challenge:</b>	Type:	string (hexadecimal #)
	Description:	Hexadecimal-formatted, randomly generated number
	Example:	EA7F57F37595B6891C222EF284C05D84

Clients must then generate a one-way hash (CHAP digest) using the user's credentials and the parameters returned via the initiate request. For a working reference on how to calculate the digest, see `auth.js` in the SonicOS Web management interface code.

When the CHAP digest is generated, it is packaged up via a JSON-formatted request to `POST /api/sonicos/auth`:

```
{
  "override": {boolean},
  "id": "{string}",
  "user": "{string}",
  "digest": "{string}"
}
```

<b>override:</b>	Type:	boolean
	Description:	Boolean flag that if true will allow the API session to override an admin currently logged in.
	Default:	false
	Example:	true
<b>id:</b>	Type:	string (hexadecimal number)
	Description:	CHAP ID.
	Example:	0b
<b>user:</b>	Type:	string
	Description:	Username.
	Example:	admin
<b>digest:</b>	Type:	string
	Description:	CHAP digest.
	Example:	D96E46E27497B6891C222EF284C05D84

## Examples

### Topics:

- [Example - Commit Pending Configuration](#) on page 13
- [Example - Address Object API Calls](#) on page 15

## Example - Commit Pending Configuration

All SonicOS APIs that modify configuration (POST, PUT, DELETE) do not take effect immediately. Rather, configuration is staged and is not pushed to run-time config and saved to flash/permanent storage until API clients explicitly execute a POST request to `/api/sonicos/config/pending`. This is the same behavior as in the SonicOS CLI and equivalent to invoking the `commit` command from the top-level config mode.

Pending configuration can be canceled (deleted) at any time by executing a DELETE request to `/api/sonicos/config/pending`. Any/all pending configuration is canceled upon client session termination, whether due to idle-timeout or explicit logout. In this case, all unsaved changes are lost. It is the client's responsibility to either commit pending configuration after each POST/PUT/DELETE API call or maintain pending changes on the client side to be restored in a later session.

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/config/pending</code>	Empty	Empty	—	Empty
<b>Schema:</b> N/A				

### Topics:

- [Schema](#) on page 14
- [Examples](#) on page 14

# Schema

## Schema Structure

A schema is not really applicable here as POST, PUT, and DELETE HTTP body is expected to be empty. However, GET returns any/all pending (unsaved) configuration.

## Schema Attributes

Not applicable.

## Examples

### Topics:

- [# GET Pending Changes \(unchanged\)](#) on page 14
- [# GET Pending Changes](#) on page 14
- [# POST Pending Changes](#) on page 15

## # GET Pending Changes (unchanged)

### Request:

```
GET /api/sonicos/config/pending
Accept: application/json
```

### Response:

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
{
}
```

## # GET Pending Changes

### Request:

```
GET /api/sonicos/config/pending
Accept: application/json
```

### Response:

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
{
  "address_objects": [
    {
      "pending": "ADD"
    },
    {
      "ipv4": {
        "name": "B"
      },
      "host": {
```

```

        "ip": "2.2.2.2"
      }
    }, "zone": "WAN"
  }
]
}

```

## # POST Pending Changes

### Request:

```

POST /api/sonicos/config/pending
Accept: application/json

```

### Response:

```

HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
{
  "status": {
    "success": true
    , "cli": {
      "depth": 1
      , "mode": "config_mode"
      , "configuring": true
      , "pending_config": false
      , "restart_required": "NONE"
    }
    , "info": [
      { "level": "info", "code": "E_OK", "message": "Success." }
    ]
  }
}

```

## Example - Address Object API Calls

### Topics:

- [# Create a new IPv4 Address Object named Web Server](#) on page 15
- [# Modify the Web Server Address Object host IP](#) on page 16
- [# Delete the Web Server Address Object](#) on page 16

## # Create a new IPv4 Address Object named Web Server

```

POST /api/sonicos/address-objects/ipv4
Content-type: application/json

```

```

{
  "address_object": {
    "ipv4": {
      "name": "Web Server",
      "zone": "DMZ",

```



```
    "host": {
      "ip": "192.168.168.168"
    }
  }
}
```

## # Modify the Web Server Address Object host IP

PUT /api/sonicos/address-objects/ipv4/name/Web%20Server  
Content-type: application/json

```
{
  "address_object": {
    "ipv4": {
      "host": {
        "ip": "192.168.168.1"
      }
    }
  }
}
```

## # Delete the Web Server Address Object

DELETE /api/sonicos/address-objects/ipv4/name/Web%20Server

## API: Config - Pending

- [About Modifying Configuration API](#) on page 17
- [Endpoint](#) on page 17
- [Schema Structure](#) on page 17
  - [Schema Attributes](#) on page 18
- [Examples](#) on page 18
  - [GET Pending Changes \(Unchanged\)](#) on page 18
  - [GET Pending Changes](#) on page 18
  - [POST Pending Changes](#) on page 19

### About Modifying Configuration API

All SonicOS API that modify configuration (POST, PUT, DELETE) do not take effect immediately. Rather, configuration is staged and is not pushed to run-time config or saved to `flash/permanent` storage until API clients explicitly execute a POST request to `/api/sonicos/config/pending`. This is the same behavior as SonicOS CLI and equivalent to invoking the `commit` command from the top-level config mode.

Pending configuration can be canceled (deleted) at any time by executing a DELETE request to `/api/sonicos/config/pending`. It should be noted that any/all pending configuration is canceled (deleted) upon client session termination, whether due to idle-timeout or explicit logout. In this case, all unsaved changes are lost so it is the client's responsibility to either commit pending configuration after each POST/PUT/DELETE API call or maintain pending changes on the client side to be restored in a later session.

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/config/pending</code>	Empty	Empty	—	Empty
Schema: N/A				

### Schema Structure

A schema is not really applicable here as POST, PUT and DELETE HTTP body is expected to be empty. However, GET returns any/all pending (unsaved) configuration so see all schemas in the following chapters.

# Schema Attributes

Not applicable.

## Examples

### Topics:

- [GET Pending Changes \(Unchanged\)](#) on page 18
- [GET Pending Changes](#) on page 18
- [POST Pending Changes](#) on page 19

## GET Pending Changes (Unchanged)

### Request:

```
GET /api/sonicos/config/pending
Accept: application/json
```

### Response:

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
```

```
{
}
```

## GET Pending Changes

### Request:

```
GET /api/sonicos/config/pending
Accept: application/json
```

### Response:

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
```

```
{
  "address_objects": [
    {
      "pending": "ADD"
    },
    {
      "ipv4": {
        "name": "B"
      },
      "host": {
        "ip": "2.2.2.2"
      },
      "zone": "WAN"
    }
  ]
}
```

```
]
}
```

## POST Pending Changes

### Request:

```
POST /api/sonicos/config/pending
Accept: application/json
```

### Response:

```
HTTP/1.0 200 OK
Server: SonicWALL
Content-type: application/json; charset=UTF-8
```

```
{
  "status": {
    "success": true

    , "cli": {
      "depth": 1
      , "mode": "config_mode"
      , "configuring": true
      , "pending_config": false
      , "restart_required": "NONE"
    }

    , "info": [
      { "level": "info", "code": "E_OK", "message": "Success." }
    ]
  }
}
```

# API: Restart

- [About Restarting API](#) on page 20
- [Endpoint](#) on page 20
- [Schema Structure](#) on page 20
  - [Schema Attributes](#) on page 20
- [Example](#) on page 21

## About Restarting API

Restarts SonicOS (and chassis) immediately or after an interval of time.

## Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> /api/sonicos/restart [ / chassis ] [ /at/{YYYYMMDDHHMMSS}   /in/{UINT32} { /minutes   /hours   /days }   /now ]	—	Empty	—	—
<b>Schema:</b> N/A				

## Schema Structure

Not applicable.

## Schema Attributes

Not applicable.

# Example

```
POST /api/sonicos/restart
POST /api/sonicos/restart/now
POST /api/sonicos/restart/chassis/now
POST /api/sonicos/restart/in/3/days
```

# API: Address Objects – IPv4

- [Endpoint](#) on page 22
- [Schema Structure](#) on page 22
  - [Object: Address Object](#) on page 22
  - [Collection: Address Object](#) on page 23
  - [Schema Attributes](#) on page 23

## Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/address-objects/ipv4</code> <b>Schema:</b> <code>collection#address-object-ipv4-config</code>	Empty	Required	Required	Required
<b>URI:</b> <code>/api/sonicos/address-objects/ipv4/name/{NAME}</code> <b>Schema:</b> <code>object#address-object-ipv4-config</code>	Empty	—	Required	Ignored
<b>URI:</b> <code>/api/sonicos/address-objects/ipv4/uuid/{UUID}</code> <b>Schema:</b> <code>object#address-object-ipv4-config</code>	Empty	—	Required	Ignored

## Schema Structure

### Topics:

- [Object: Address Object](#) on page 22
- [Collection: Address Object](#) on page 23
- [Schema Attributes](#) on page 23

## Object: Address Object

```
{
  "address_object": {
    "ipv4": {
      "name": "{string}",
      "uuid": "{string}",

      "host": {
        "ip": "{string}"
      },
    },
  },
}
```

```

    | "range": {
      |   "begin": "{string}",
      |   "end": "{string}"
      | },
    | "network": {
      |   "subnet": "{string}",
      |   "mask": "{string}"
      | }
  }
}
"zone": "{string}"
}
}
}

```

## Collection: Address Object

```

{
  "address_objects": [
    object#address-object-ipv4-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [address\\_object](#): on page 23
- [address\\_objects](#): on page 24
- [address\\_object.ipv4](#): on page 24
- [address\\_object.ipv4.name](#): on page 24
- [address\\_object.ipv4.uuid](#): on page 24
- [address\\_object.ipv4.host](#): on page 24
- [address\\_object.ipv4.host.ip](#): on page 24
- [address\\_object.ipv4.range](#): on page 24
- [address\\_object.ipv4.range.begin](#): on page 24
- [address\\_object.ipv4.range.end](#): on page 24
- [address\\_object.ipv4.network](#): on page 25
- [address\\_object.ipv4.network.subnet](#): on page 25
- [address\\_object.ipv4.network.mask](#): on page 25
- [address\\_object.ipv4.zone](#): on page 25

## address\_object:

Type: object  
 Flags: -none-  
 Description: Add/edit address object.



## address\_objects:

Type: array  
Flags: -none-  
Description: Address object collection.

## address\_object.ipv4:

Type: object  
Flags: key  
Description: IPv4 address object.

## address\_object.ipv4.name:

Type: string  
Flags: key  
Description: Host/network/range address object name.

## address\_object.ipv4.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## address\_object.ipv4.host:

Type: object  
Flags: -none-  
Description: Address object host.

## address\_object.ipv4.host.ip:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D.

## address\_object.ipv4.range:

Type: object  
Flags: -none-  
Description: Address object range.

## address\_object.ipv4.range.begin:

Type: string (ip)  
Flags: -none-  
Description: IPv4 starting range in the form: D.D.D.D.

## address\_object.ipv4.range.end:

Type: string (ip)  
Flags: -none-  
Description: IIPv4 ending range in the form: D.D.D.D.

## **address\_object.ipv4.network:**

Type: object  
Flags: -none-  
Description: Address object network.

## **address\_object.ipv4.network.subnet:**

Type: string (ip)  
Flags: -none-  
Description: IPv4 network in the form: D.D.D.D.

## **address\_object.ipv4.network.mask:**

Type: string (subnet)  
Flags: -none-  
Description: IPv4 netmask in decimal dotted or CIDR form: D.D.D.D OR /D

## **address\_object.ipv4.zone:**

Type: string  
Flags: -none-  
Description: Zone object name.

## API: Address Objects – IPv6

- [Endpoint](#) on page 26
- [Schema Structure](#) on page 26
  - [Object: Address Object](#) on page 26
  - [Collection: Address Objects](#) on page 27
  - [Schema Attributes](#) on page 27

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/address-objects/ipv6</code> <b>Schema:</b> <code>collection#address-object-ipv6-config</code>	Empty	Required	Required	Required
<b>URI:</b> <code>/api/sonicos/address-objects/ipv6/name/{NAME}</code> <b>Schema:</b> <code>object#address-object-ipv6-config</code>	Empty	—	Required	Ignored
<b>URI:</b> <code>/api/sonicos/address-objects/ipv6/uuid/{UUID}</code> <b>Schema:</b> <code>object#address-object-ipv6-config</code>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Address Object](#) on page 26
- [Collection: Address Objects](#) on page 27
- [Schema Attributes](#) on page 27

### Object: Address Object

```
{
  "address_object": {
    "ipv6": {
      "name": "{string}",
      "uuid": "{string}",

      "host": {
        "ip": "{string}"
      },
    },
  },
}
```

```

    | "range": {
      |   "begin": "{string}",
      |   "end": "{string}"
      | },
    | "network": {
      |   "subnet": "{string}",
      |   "mask": "{string}"
      | }
  }
  "zone": "{string}"
}
}
}

```

## Collection: Address Objects

```

{
  "address_objects": [
    object#address-object-ipv6-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [address\\_object](#): on page 27
- [address\\_objects](#): on page 28
- [address\\_object.ipv6](#): on page 28
- [address\\_object.ipv6.name](#): on page 28
- [address\\_object.ipv6.uuid](#): on page 28
- [address\\_object.ipv6.host](#): on page 28
- [address\\_object.ipv6.host.ip](#): on page 28
- [address\\_object.ipv6.range](#): on page 28
- [address\\_object.ipv6.range.begin](#): on page 28
- [address\\_object.ipv6.range.end](#): on page 28
- [address\\_object.ipv6.network](#): on page 29
- [address\\_object.ipv6.network.subnet](#): on page 29
- [address\\_object.ipv6.network.mask](#): on page 29
- [address\\_object.ipv6.zone](#): on page 29

## address\_object:

Type: object  
 Flags: -none-  
 Description: Add/edit address object.

## address\_objects:

Type: array  
Flags: -none-  
Description: Address object collection.

## address\_object.ipv6:

Type: object  
Flags: key  
Description: IPV6 address object.

## address\_object.ipv6.name:

Type: string  
Flags: key  
Description: Host/network/range address object name.

## address\_object.ipv6.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## address\_object.ipv6.host:

Type: object  
Flags: -none-  
Description: Address object host.

## address\_object.ipv6.host.ip:

Type: string (ip)  
Flags: -none-  
Description: IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## address\_object.ipv6.range:

Type: object  
Flags: -none-  
Description: Address object range.

## address\_object.ipv6.range.begin:

Type: string (ip)  
Flags: -none-  
Description: IPv6 starting range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## address\_object.ipv6.range.end:

Type: string (ip)  
Flags: -none-  
Description: IIPv6 ending range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## address\_object.ipv6.network:

Type: object  
Flags: -none-  
Description: Address object network.

## address\_object.ipv6.network.subnet:

Type: string (ip)  
Flags: -none-  
Description: IPv6 network in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## address\_object.ipv6.network.mask:

Type: string (v6 prefix)  
Flags: -none-  
Description: Network prefix.

## address\_object.ipv6.zone:

Type: string  
Flags: -none-  
Description: Zone object name.

## API: Address Objects – MAC

- [Endpoint](#) on page 30
- [Schema Structure](#) on page 30
  - [Object: Address Object](#) on page 30
  - [Collection: Address Object](#) on page 31
  - [Schema Attributes](#) on page 31

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/address-objects/mac</i> <b>Schema:</b> <i>collection#address-object-mac-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/address-objects/mac/name/{NAME}</i> <b>Schema:</b> <i>object#address-object-mac-config</i>	Empty	—	Required	Ignored
<b>URI:</b> <i>/api/sonicos/address-objects/mac/uuid/{UUID}</i> <b>Schema:</b> <i>object#address-object-mac-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Address Object](#) on page 30
- [Collection: Address Object](#) on page 31
- [Schema Attributes](#) on page 31

### Object: Address Object

```
{
  "address_object": {
    "mac": {
      "name": "{string}",
      "uuid": "{string}",
      "address": "{string}",
      "zone": "{string}",
      "multi_homed": {boolean}
    }
  }
}
```

```
}  
}
```

## Collection: Address Object

```
{  
  "address_objects": [  
    object#address-object-mac-config,  
    ...  
  ]  
}
```

## Schema Attributes

### Topics:

- [address\\_object](#): on page 31
- [address\\_objects](#): on page 31
- [address\\_object.mac](#): on page 31
- [address\\_object.mac.name](#): on page 31
- [address\\_object.mac.uuid](#): on page 32
- [address\\_object.mac.address](#) on page 32
- [address\\_object.mac.zone](#): on page 32
- [address\\_object.mac.multi\\_homed](#): on page 32

### address\_object:

Type: object  
Flags: -none-  
Description: address object.

### address\_objects:

Type: array  
Flags: -none-  
Description: Address object collection.

### address\_object.mac:

Type: object  
Flags: key  
Description: MAC address object.

### address\_object.mac.name:

Type: string  
Flags: key  
Description: MAC address object name.



## address\_object.mac.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## address\_object.mac.address

Type: string (mac)  
Flags: -none-  
Description: Address object MAC address in the form: HH:HH:HH:HH:HH:HH or HHHHHHHHHHHH or HH-HH-HH-HH-HH-HH.

## address\_object.mac.zone:

Type: string  
Flags: -none-  
Description: Zone object name.

## address\_object.mac.multi\_homed:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable multi-homed host.

## API: Address Objects – FQDN

- [Endpoint](#) on page 33
- [Schema Structure](#) on page 33
  - [Object: Address Object](#) on page 33
  - [Collection: Address Object](#) on page 34
  - [Schema Attributes](#) on page 34

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/address-objects/fqdn</i> <b>Schema:</b> <i>collection#address-object-fqdn-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/address-objects/fqdn/name/{NAME}</i> <b>Schema:</b> <i>object#address-object-fqdn-config</i>	Empty	—	Required	Ignored
<b>URI:</b> <i>/api/sonicos/address-objects/fqdn/uuid/{UUID}</i> <b>Schema:</b> <i>object#address-object-fqdn-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Address Object](#) on page 33
- [Collection: Address Object](#) on page 34
- [Schema Attributes](#) on page 34

### Object: Address Object

```
{
  "address_object": {
    "fqdn": {
      "name": "{string}",
      "uuid": "{string}",
      "domain": "{string}",
      "zone": "{string}",
      "dns_ttl": {number}
    }
  }
}
```

```
}  
}
```

## Collection: Address Object

```
{  
  "address_objects": [  
    object#address-object-fqdn-config,  
    ...  
  ]  
}
```

## Schema Attributes

### Topics:

- [address\\_object](#): on page 34
- [address\\_objects](#): on page 34
- [address\\_object.fqdn](#): on page 34
- [address\\_object.fqdn.name](#): on page 34
- [address\\_object.fqdn.uuid](#): on page 35
- [address\\_object.fqdn.domain](#) on page 35
- [address\\_object.fqdn.zone](#): on page 35
- [address\\_object.fqdn.dns\\_ttl](#) on page 35

### address\_object:

Type: object  
Flags: -none-  
Description: address object.

### address\_objects:

Type: array  
Flags: -none-  
Description: Address object collection.

### address\_object.fqdn:

Type: object  
Flags: key  
Description: fqdn address object.

### address\_object.fqdn.name:

Type: string  
Flags: key  
Description: FQDN address object name.

## address\_object.fqdn.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## address\_object.fqdn.domain

Type: string (fqdn)  
Flags: -none-  
Description: FQDN in the form: example.com or \*.example.com.

## address\_object.fqdn.zone:

Type: string  
Flags: -none-  
Description: Zone object name.

## address\_object.fqdn.dns\_ttl

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

# API: Address Groups — IPv4

- [Endpoint](#) on page 36
- [Schema Structure](#) on page 36
  - [Object: Address Group](#) on page 36
  - [Collection: Address Group](#) on page 37
  - [Schema Attributes](#) on page 37

## Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/address-groups/ipv4</code> <b>Schema:</b> <code>collection#address-group-ipv4-config</code>	Empty	Required	Required	Required
<b>URI:</b> <code>/api/sonicos/address-groups/ipv4/name/{NAME}</code> <b>Schema:</b> <code>object#address-group-ipv4-config</code>	Empty	—	Required	If deleting member(s)
<b>URI:</b> <code>/api/sonicos/address-groups/ipv4/uuid/{UUID}</code> <b>Schema:</b> <code>object#address-group-ipv4-config</code>	Empty	—	Required	If deleting member(s)

## Schema Structure

### Topics:

- [Object: Address Group](#) on page 36
- [Collection: Address Group](#) on page 37
- [Schema Attributes](#) on page 37

## Object: Address Group

```
{
  "address_group": {
    "ipv4": {
      "name": "{string}",
      "uuid": "{string}",

      "address_group": {
        "ipv4": [
          {
            "name": "{string}"
          }
        ]
      }
    }
  }
}
```

```

        },
        ...
    ],
    },
    "address_object": {
        "ipv4": [
            {
                "name": "{string}"
            },
            ...
        ],
        "mac": [
            {
                "name": "{string}"
            },
            ...
        ],
        "fqdn": [
            {
                "name": "{string}"
            },
            ...
        ]
    }
}
}
}
}
}
}
}

```

## Collection: Address Group

```

{
  "address_objects": [
    object#address-group-ipv4-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [address\\_group](#): on page 38
- [address\\_groups](#): on page 38
- [address\\_group.ipv4](#): on page 38
- [address\\_group.ipv4.name](#): on page 38
- [address\\_group.ipv4.uuid](#): on page 38
- [address\\_group.ipv4.address\\_group](#): on page 38
- [address\\_group.ipv4.address\\_group.ipv4](#): on page 38
- [address\\_group.ipv4.address\\_object.ipv4.name](#): on page 39

- [address\\_group.ipv4.address\\_object.mac](#): on page 39
- [address\\_group.ipv4.address\\_object.mac.name](#): on page 39
- [address\\_group.ipv4.address\\_object.fqdn](#): on page 39
- [address\\_group.ipv4.address\\_object.fqdn.name](#): on page 39

## address\_group:

Type: object  
 Flags: -none-  
 Description: Address group.

## address\_groups:

Type: array  
 Flags: -none-  
 Description: Address group collection.

## address\_group.ipv4:

Type: object  
 Flags: key  
 Description: ipv4 address group.

## address\_group.ipv4.name:

Type: string  
 Flags: key  
 Description: IPv4 address group name.

## address\_group.ipv4.uuid:

Type: string  
 Flags: key  
 Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## address\_group.ipv4.address\_group:

Type: object  
 Flags: -none-  
 Description: Assign address group to group.

## address\_group.ipv4.address\_group.ipv4:

Type: array  
 Flags: -none-  
 Description: IPV4 address group.

## address\_group.ipv4.address\_group.ipv4.name:

Type: string  
 Flags: -none-  
 Description: Group address object name.

## **address\_group.ipv4.address\_object:**

Type: object  
Flags: -none-  
Description: Assign an FQDN address object to group.

## **address\_group.ipv4.address\_object.ipv4:**

Type: array  
Flags: -none-  
Description: IPV4 address object.

## **address\_group.ipv4.address\_object.ipv4.name:**

Type: string  
Flags: -none-  
Description: Host/network/range address object name.

## **address\_group.ipv4.address\_object.mac:**

Type: array  
Flags: -none-  
Description: MAC address object.

## **address\_group.ipv4.address\_object.mac.name:**

Type: string  
Flags: -none-  
Description: MAC address object name.

## **address\_group.ipv4.address\_object.fqdn:**

Type: array  
Flags: -none-  
Description: FQDN address object.

## **address\_group.ipv4.address\_object.fqdn.name:**

Type: string  
Flags: -none-  
Description: FQDN address object name.



## API: Address Groups — IPv6

- [Endpoint](#) on page 40
- [Schema Structure](#) on page 40
  - [Object: Address Group](#) on page 40
  - [Collection: Address Group](#) on page 41
  - [Schema Attributes](#) on page 42

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/address-groups/ipv6</code> <b>Schema:</b> <code>collection#address-group-ipv6-config</code>	Empty	Required	Required	Required
<b>URI:</b> <code>/api/sonicos/address-groups/ipv6/name/{NAME}</code> <b>Schema:</b> <code>object#address-group-ipv6-config</code>	Empty	—	Required	If deleting member(s)
<b>URI:</b> <code>/api/sonicos/address-groups/ipv6/uuid/{UUID}</code> <b>Schema:</b> <code>object#address-group-ipv6-config</code>	Empty	—	Required	If deleting member(s)

### Schema Structure

#### Topics:

- [Object: Address Group](#) on page 40
- [Collection: Address Group](#) on page 41
- [Schema Attributes](#) on page 42

### Object: Address Group

```
{
  "ipv6": {
    "name": "{string}",
    "uuid": "{string}",

    "address_group": {
      "ipv4": [
        {
          "name": "{string}"
        },

```

```

    ],
    ...
    "ipv6": [
      {
        "name": "{string}"
      },
      ...
    ]
  },
  "address_object": {
    "ipv4": [
      {
        "name": "{string}"
      },
      ...
    ],
    "ipv6": [
      {
        "name": "{string}"
      },
      ...
    ],
    "mac": [
      {
        "name": "{string}"
      },
      ...
    ],
    "fqdn": [
      {
        "name": "{string}"
      },
      ...
    ]
  }
}
}
}
}
}
}
}

```

## Collection: Address Group

```

{
  "address_objects": [
    object#address-group-ipv6-config,
    ...
  ]
}

```

# Schema Attributes

## Topics:

- [address\\_group](#): on page 42
- [address\\_groups](#): on page 42
- [address\\_group.ipv6](#): on page 42
- [address\\_group.ipv6.name](#): on page 42
- [address\\_group.ipv6.uuid](#): on page 42
- [address\\_group.ipv6.address\\_group](#): on page 43
- [address\\_group.ipv6.address\\_group.ipv4](#): on page 43
- [address\\_group.ipv6.address\\_group.ipv4.name](#): on page 43
- [address\\_group.ipv6.address\\_object.ipv6](#): on page 43
- [address\\_group.ipv6.address\\_object.ipv6.name](#): on page 44
- [address\\_group.ipv6.address\\_object.mac](#): on page 44
- [address\\_group.ipv6.address\\_object.mac.name](#): on page 44
- [address\\_group.ipv6.address\\_object.fqdn](#): on page 44
- [address\\_group.ipv6.address\\_object.fqdn.name](#): on page 44

## address\_group:

Type: object  
Flags: -none-  
Description: Address group.

## address\_groups:

Type: array  
Flags: -none-  
Description: Address group collection.

## address\_group.ipv6:

Type: object  
Flags: key  
Description: IPv6 address group.

## address\_group.ipv6.name:

Type: string  
Flags: key  
Description: Group address object name.

## address\_group.ipv6.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## address\_group.ipv6.address\_group:

Type: object  
Flags: -none-  
Description: Assign address group to group.

## address\_group.ipv6.address\_group.ipv4:

Type: array  
Flags: -none-  
Description: IPV4 address group.

## address\_group.ipv6.address\_group.ipv4.name:

Type: string  
Flags: -none-  
Description: Group address object name.

## address\_group.ipv6.address\_group.ipv6:

Type: array  
Flags: -none-  
Description: IPV6 address group.

## address\_group.ipv6.address\_group.ipv6.name:

Type: string  
Flags: -none-  
Description: Group address object name.

## address\_group.ipv6.address\_object:

Type: object  
Flags: -none-  
Description: Assign an IPV6 address object to group.

## address\_group.ipv6.address\_object.ipv4:

Type: array  
Flags: -none-  
Description: IPV4 address object.

## address\_group.ipv6.address\_object.ipv4.name:

Type: string  
Flags: -none-  
Description: Host/network/range address object name.

## address\_group.ipv6.address\_object.ipv6:

Type: array  
Flags: -none-  
Description: IPV6 address object.

## **address\_group.ipv6.address\_object.ipv6.name:**

Type: string  
Flags: -none-  
Description: Address object name.

## **address\_group.ipv6.address\_object.mac:**

Type: array  
Flags: -none-  
Description: MAC address object.

## **address\_group.ipv6.address\_object.mac.name:**

Type: string  
Flags: -none-  
Description: MAC address object name.

## **address\_group.ipv6.address\_object.fqdn:**

Type: array  
Flags: -none-  
Description: FQDN address object.

## **address\_group.ipv6.address\_object.fqdn.name:**

Type: string  
Flags: -none-  
Description: FQDN address object name.

# API: Schedule Objects

- [Endpoint](#) on page 45
- [Schema Structure](#) on page 45
  - [Object: Schedule](#) on page 45
  - [Collection: Schedule](#) on page 46
  - [Schema Attributes](#) on page 46

## Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/schedules</i> <b>Schema:</b> <i>collection#schedule-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/schedules/name/{NAME}</i> <b>Schema:</b> <i>object#schedule-config</i>	Empty	—	Required	Ignored
<b>URI:</b> <i>/api/sonicos/schedules/uuid/{UUID}</i> <b>Schema:</b> <i>object#schedule-config</i>	Empty	—	Required	Ignored

## Schema Structure

### Topics:

- [Object: Schedule](#) on page 45
- [Collection: Schedule](#) on page 46
- [Schema Attributes](#) on page 46

## Object: Schedule

```
{
  "schedule": {
    "name": "{string}",
    "uuid": "{string}",

    "occurs": {
      "once": {
        "event": {
          "start": "{string}",
          "end": "{string}"
        }
      }
    }
  }
}
```

```

    }
  },
  | "recurring": {
    "recurring": [
      {
        "start": "{string}",
        "end": "{string}",
        "sun": {boolean},
        "mon": {boolean},
        "tue": {boolean},
        "wed": {boolean},
        "thu": {boolean},
        "fri": {boolean},
        "sat": {boolean}
      },
      ...
    ]
  },
  | "mixed": {
    "event": {
      "start": "{string}",
      "end": "{string}"
    },
    "recurring": [
      {
        "start": "{string}",
        "end": "{string}",
        "sun": {boolean},
        "mon": {boolean},
        "tue": {boolean},
        "wed": {boolean},
        "thu": {boolean},
        "fri": {boolean},
        "sat": {boolean}
      },
      ...
    ]
  }
}

```

## Collection: Schedule

```

{
  "schedules": [
    object#schedule-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [schedule](#): on page 47
- [schedules](#): on page 47
- [schedule.name](#): on page 47

- [schedule.uuid](#): on page 48
- [schedule.occurs](#): on page 48
- [schedule.occurs.once](#): on page 48
- [schedule.occurs.once.event](#): on page 48
- [schedule.occurs.once.event.start](#): on page 48
- [schedule.occurs.recurring.recurring.end](#): on page 49
- [schedule.occurs.recurring.recurring.mon](#): on page 49
- [schedule.occurs.recurring.recurring.tue](#): on page 49
- [schedule.occurs.recurring.recurring.wed](#): on page 49
- [schedule.occurs.recurring.recurring.thu](#): on page 49
- [schedule.occurs.recurring.recurring.fri](#): on page 49
- [schedule.occurs.recurring.recurring.sat](#): on page 49
- [schedule.occurs.mixed](#): on page 49
- [schedule.occurs.mixed.event](#): on page 50
- [schedule.occurs.mixed.event.start](#): on page 50
- [schedule.occurs.mixed.event.end](#): on page 50
- [schedule.occurs.mixed.recurring](#): on page 50
- [schedule.occurs.mixed.recurring.start](#): on page 50
- [schedule.occurs.mixed.recurring.end](#): on page 50
- [schedule.occurs.mixed.recurring.sun](#): on page 50
- [schedule.occurs.mixed.recurring.mon](#): on page 50
- [schedule.occurs.mixed.recurring.tue](#): on page 50
- [schedule.occurs.mixed.recurring.wed](#): on page 51
- [schedule.occurs.mixed.recurring.thu](#): on page 51
- [schedule.occurs.mixed.recurring.fri](#): on page 51
- [schedule.occurs.mixed.recurring.sat](#): on page 51

## schedule:

Type: object  
 Flags: -none-  
 Description: Schedule object.

## schedules:

Type: array  
 Flags: -none-  
 Description: Schedule object collection.

## schedule.name:

Type: string  
 Flags: key  
 Description:



## schedule.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## schedule.occurs:

Type: object  
Flags: -none-  
Description: Set schedule type.

## schedule.occurs.once:

Type: object  
Flags: -none-  
Description: Set for single occurrence.

## schedule.occurs.once.event:

Type: object  
Flags: -none-  
Description: Enter the start and end date and time of a one time event.

## schedule.occurs.once.event.start:

Type: string (time yyyyymmddhhmm)  
Flags: -none-  
Description: Timestamp in the form: YYYY:MM:DD:HH:MM

## schedule.occurs.once.event.end:

Type: string (time yyyyymmddhhmm)  
Flags: -none-  
Description: Timestamp in the form: YYYY:MM:DD:HH:MM

## schedule.occurs.recurring:

Type: object  
Flags: -none-  
Description: Set for recurring schedule.

## schedule.occurs.recurring.recurring:

Type: array  
Flags: -none-  
Description: Add to the list of applicable days and start and stop time of the schedule.

## schedule.occurs.recurring.recurring.start:

Type: string (time hhmm)  
Flags: -none-  
Description: Time in the form: DD:DD

## **schedule.occurs.recurring.recurring.end:**

Type: string (time h:mm)  
Flags: -none-  
Description: Time in the form: DD:DD

## **schedule.occurs.recurring.recurring.sun:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.recurring.recurring.mon:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.recurring.recurring.tue:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.recurring.recurring.wed:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.recurring.recurring.thu:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.recurring.recurring.fri:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.recurring.recurring.sat:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.mixed:**

Type: object  
Flags: -none-  
Description: Set for both recurring schedule and single occurrence.

## schedule.occurs.mixed.event:

Type: object  
Flags: -none-  
Description: Enter the start and end date and time of a one time event.

## schedule.occurs.mixed.event.start:

Type: string (time yyyyymmddhhmm)  
Flags: -none-  
Description: Timestamp in the form: YYYY:MM:DD:HH:MM

## schedule.occurs.mixed.event.end:

Type: string (time yyyyymmddhhmm)  
Flags: -none-  
Description: Timestamp in the form: YYYY:MM:DD:HH:MM

## schedule.occurs.mixed.recurring:

Type: array  
Flags: -none-  
Description: Add to the list of applicable days and start and stop time of the schedule.

## schedule.occurs.mixed.recurring.start:

Type: string (time hhmm)  
Flags: -none-  
Description: Time in the form: DD:DD

## schedule.occurs.mixed.recurring.end:

Type: string (time hhmm)  
Flags: -none-  
Description: Time in the form: DD:DD

## schedule.occurs.mixed.recurring.sun:

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## schedule.occurs.mixed.recurring.mon:

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## schedule.occurs.mixed.recurring.tue:

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.mixed.recurring.wed:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.mixed.recurring.thu:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.mixed.recurring.fri:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

## **schedule.occurs.mixed.recurring.sat:**

Type: boolean (true|false)  
Flags: -none-  
Description: Day of the week.

# API: Service Objects

- [Endpoint](#) on page 52
- [Schema Structure](#) on page 52
  - [Object: Service Object](#) on page 52
  - [Collection: Service Object](#) on page 53
  - [Schema Attributes](#) on page 53

## Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/service-objects</i> <b>Schema:</b> <i>collection#service-object-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/service-objects/name/{NAME}</i> <b>Schema:</b> <i>object#service-object-config</i>	Empty	—	Required	Ignored
<b>URI:</b> <i>/api/sonicos/service-objects/uuid/{UUID}</i> <b>Schema:</b> <i>object#service-object-config</i>	Empty	—	Required	Ignored

## Schema Structure

### Topics:

- [Object: Service Object](#) on page 52
- [Collection: Service Object](#) on page 53
- [Schema Attributes](#) on page 53

## Object: Service Object

```
{
  "service_object": {
    "name": "{string}",
    "uuid": "{string}",

    "custom": {number},
    | "icmp": "{string}",
    | "igmp": "{string}",
    | "tcp": {
```

```

        "begin": {number},
        "end": {number}
    },
    | "udp": {
        "begin": {number},
        "end": {number}
    },
    | "gre": {true},
    | "esp": {true},
    | "6over4": {true},
    | "ah": {true},
    | "icmpv6": "{string}",
    | "eigrp": {true},
    | "ospf": "{string}",
    | "pim": "{string}",
    | "l2tp": {true},
    | "ipcomp": {true}
    }
}

collection#service-object-config
{
    "service_objects": [
        object#service-object-config,
        ...
    ]
}

```

## Collection: Service Object

```

{
    "service-objects": [
        object#service-object-config,
        ...
    ]
}

```

## Schema Attributes

### Topics:

- [service\\_object](#): on page 54
- [service\\_objects](#): on page 54
- [service\\_object.name](#): on page 54
- [service\\_object.uuid](#): on page 54
- [service\\_object.custom](#): on page 54
- [service\\_object.icmp](#): on page 54
- [service\\_object.igmp](#): on page 55
- [service\\_object.tcp](#): on page 55
- [service\\_object.tcp.begin](#): on page 55
- [service\\_object.tcp.end](#): on page 55
- [service\\_object.udp](#): on page 55
- [service\\_object.udp.begin](#): on page 55

- [service\\_object.udp.end](#): on page 55
- [service\\_object.gre](#): on page 55
- [service\\_object.esp](#): on page 55
- [service\\_object.6over4](#): on page 56
- [service\\_object.ah](#): on page 56
- [service\\_object.icmpv6](#): on page 56
- [service\\_object.eigrp](#): on page 56
- [service\\_object.ospf](#): on page 56
- [service\\_object.pim](#): on page 56
- [service\\_object.l2tp](#): on page 56
- [service\\_object.ipcomp](#): on page 56

## service\_object:

Type: object  
 Flags: -none-  
 Description: Service object.

## service\_objects:

Type: array  
 Flags: -none-  
 Description: Service object collection.

## service\_object.name:

Type: string  
 Flags: key  
 Description: Service object name.

## service\_object.uuid:

Type: string  
 Flags: key  
 Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## service\_object.custom:

Type: number (uint8)  
 Flags: -none-  
 Description: Integer in the form: D OR 0xHH

## service\_object.icmp:

Type: string  
 Flags: -none-  
 Description: Service object ICMP.

## service\_object.igmp:

Type: string  
Flags: -none-  
Description: Service object IGMP.

## service\_object.tcp:

Type: object  
Flags: -none-  
Description: Service object TCP.

## service\_object.tcp.begin:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## service\_object.tcp.end:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## service\_object.udp:

Type: object  
Flags: -none-  
Description: Service object UDP.

## service\_object.udp.begin:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## service\_object.udp.end:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## service\_object.gre:

Type: boolean (true)  
Flags: -none-  
Description: Service object GRE.

## service\_object.esp:

Type: boolean (true)  
Flags: -none-  
Description: Service object ESP.



## **service\_object.6over4:**

Type: boolean (true)  
Flags: -none-  
Description: Service object 6over4.

## **service\_object.ah:**

Type: boolean (true)  
Flags: -none-  
Description: Service object AH.

## **service\_object.icmpv6:**

Type: string  
Flags: -none-  
Description: Service object ICMPV6

## **service\_object.eigrp:**

Type: boolean (true)  
Flags: -none-  
Description: Service object EIGRP.

## **service\_object.ospf:**

Type: string  
Flags: -none-  
Description: Service object OSPF.

## **service\_object.pim:**

Type: string  
Flags: -none-  
Description: Service object PIM.

## **service\_object.l2tp:**

Type: boolean (true)  
Flags: -none-  
Description: Service object l2tp.

## **service\_object.ipcomp:**

Type: boolean (true)  
Flags: -none-  
Description: Service object ipcomp.

# API: Service Groups

- [Endpoint](#) on page 57
- [Schema Structure](#) on page 57
  - [Object: Service Group](#) on page 57
  - [Collection: Service Group](#) on page 58
  - [Schema Attributes](#) on page 58

## Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/service-groups</i> <b>Schema:</b> <i>collection#service-group-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/service-groups/name/{NAME}</i> <b>Schema:</b> <i>object#service-group-config</i>	Empty	—	Required	If deleting member(s)
<b>URI:</b> <i>/api/sonicos/service-groups/uuid/{UUID}</i> <b>Schema:</b> <i>object#service-group-config</i>	Empty	—	Required	If deleting member(s)

## Schema Structure

### Topics:

- [Object: Service Group](#) on page 57
- [Collection: Service Group](#) on page 58
- [Schema Attributes](#) on page 58

## Object: Service Group

```
{
  "service_group": {
    "name": "{string}",
    "uuid": "{string}",

    "service_object": [
      {
        "name": "{string}"
      },
    ],
  },
}
```

```

    ], ...
    "service_group": [
      {
        "name": "{string}"
      },
      ...
    ]
  }
}

```

## Collection: Service Group

```

{
  "service-groups": [
    object#service-group-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [service\\_group](#): on page 58
- [service\\_groups](#): on page 58
- [service\\_group.name](#): on page 58
- [service\\_group.uuid](#): on page 59
- [service\\_group.service\\_object](#): on page 59
- [service\\_group.service\\_object.name](#): on page 59
- [service\\_group.service\\_group](#): on page 59
- [service\\_group.service\\_group.name](#): on page 59

### service\_group:

Type: object  
 Flags: -none-  
 Description: Service group.

### service\_groups:

Type: array  
 Flags: -none-  
 Description: Service group collection.

### service\_group.name:

Type: string  
 Flags: key  
 Description: Service object group name.

## **service\_group.uuid:**

Type: string

Flags: key

Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## **service\_group.service\_object:**

Type: array

Flags: -none-

Description: Assign service object to group.

## **service\_group.service\_object.name:**

Type: string

Flags: -none-

Description: Service object name.

## **service\_group.service\_group:**

Type: array

Flags: -none-

Description: Assign service group to group.

## **service\_group.service\_group.name:**

Type: string

Flags: -none-

Description: Service object group name.

## API: Zones

- [Endpoint](#) on page 60
- [Schema Structure](#) on page 60
  - [Object: Zone](#) on page 60
  - [Collection: Zone](#) on page 62
  - [Schema Attributes](#) on page 62

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/zones</code> <b>Schema:</b> <code>collection#zone-config</code>	Empty	Required	Required	Required
<b>URI:</b> <code>/api/sonicos/zones/name/{NAME}</code> <b>Schema:</b> <code>object#zone-config</code>	Empty	—	Required	Ignored
<b>URI:</b> <code>/api/sonicos/zones/uuid/{UUID}</code> <b>Schema:</b> <code>object#zone-config</code>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Zone](#) on page 60
- [Collection: Zone](#) on page 62
- [Schema Attributes](#) on page 62

### Object: Zone

```
{
  "zone": {
    "name": "{string}",
    "uuid": "{string}",

    "security_type": "{string}",
    "interface_trust": {boolean},

    "auto_generate_access_rules": {
      "allow_from_to_equal": {boolean},
```

```

    "allow_from_higher": {boolean},
    "allow_to_lower": {boolean},
    "deny_from_lower": {boolean}
  },

  "websense_content_filtering": {boolean},

  "client": {
    "anti_virus": {boolean},
    "content_filtering": {boolean}
  },

  "gateway_anti_virus": {boolean},
  "intrusion_prevention": {boolean},
  "app_control": {boolean},
  "anti_spyware": {boolean},
  "create_group_vpn": {boolean},
  "ssl_control": {boolean},
  "sslvpn_access": {boolean},

  "wireless": {
    "sslvpn_enforcement": {
      "server": {
        "name": "{string}",
        | "host": "{string}"
      },

      "service": {
        "name": "{string}",

        | "protocol": {
          "name": "{string}",
          "begin": {number},
          "end": {number}
        }
      }
    },

    "wifi_sec_enforcement": {
      "exception_service": {
        "name": "{string}",

        | "protocol": {
          "name": "{string}",
          "begin": {number},
          "end": {number}
        }
      }
    },

    "wifi_sec_for_site_to_site_vpn": {boolean},
    "trust_wpa_traffic_as_wifi_sec": {boolean},
    "only_sonicpoint_traffic": {boolean}
  },

  "guest_services": {
    "inter_guest": {boolean},

    "bypass": {
      "client": {
        "anti_virus": {boolean},
        "content_filtering": {boolean}
      }
    },

    "external_auth": {
      "client_redirect": "{string}",

```

```

"web_server": {
  "protocol": "{string}",
  "name": "{string}",
  "port": {number},
  "timeout": {number}
},

"message_auth": {
  "method": "{string}",
  "shared_secret": "{string}",
  "confirm_secret": "{string}"
},

"social_network": {
  "facebook": {boolean},
  "google": {boolean},
  "twitter": {boolean}
},

"auth_pages": {
  "login": "{string}",
  "expiration": "{string}",
  "timeout": "{string}",
  "max_sessions": "{string}",
  "traffic_exceeded": "{string}"
},

"web_content": {
  "redirect": {
    "use_default": {true},
    | "custom": "{string}"
  },

  "server_down": {
    "use_default": {true},
    | "custom": "{string}"
  }
}
}

```

## Collection: Zone

```

{
  "zones": [
    object#zone-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [zone](#): on page 66
- [zones](#): on page 66
- [zone.name](#): on page 67
- [zone.uuid](#): on page 67
- [zone.security\\_type](#): on page 67

- [zone.interface\\_trust](#): on page 67
- [zone.auto\\_generate\\_access\\_rules](#): on page 67
- [zone.auto\\_generate\\_access\\_rules.allow\\_from\\_to\\_equal](#): on page 67
- [zone.auto\\_generate\\_access\\_rules.allow\\_from\\_higher](#): on page 67
- [zone.auto\\_generate\\_access\\_rules.allow\\_to\\_lower](#): on page 67
- [zone.auto\\_generate\\_access\\_rules.deny\\_from\\_lower](#): on page 67
- [zone.websense\\_content\\_filtering](#): on page 68
- [zone.client](#): on page 68
- [zone.client.anti\\_virus](#): on page 68
- [zone.client.content\\_filtering](#): on page 68
- [zone.gateway\\_anti\\_virus](#): on page 68
- [zone.intrusion\\_prevention](#): on page 68
- [zone.app\\_control](#): on page 68
- [zone.anti\\_spyware](#): on page 68
- [zone.create\\_group\\_vpn](#): on page 68
- [zone.ssl\\_control](#): on page 69
- [zone.sslvpn\\_access](#): on page 69
- [zone.wireless](#): on page 69
- [zone.wireless.sslvpn\\_enforcement](#): on page 69
- [zone.wireless.sslvpn\\_enforcement.server](#): on page 69
- [zone.wireless.sslvpn\\_enforcement.server.name](#): on page 69
- [zone.wireless.sslvpn\\_enforcement.server.host](#): on page 69
- [zone.wireless.sslvpn\\_enforcement.service](#): on page 69
- [zone.wireless.sslvpn\\_enforcement.service.name](#): on page 69
- [zone.wireless.sslvpn\\_enforcement.service.protocol](#): on page 70
- [zone.wireless.sslvpn\\_enforcement.service.protocol.name](#): on page 70
- [zone.wireless.sslvpn\\_enforcement.service.protocol.begin](#): on page 70
- [zone.wireless.sslvpn\\_enforcement.service.protocol.end](#): on page 70
- [zone.wireless.wifi\\_sec\\_enforcement](#): on page 70
- [zone.wireless.wifi\\_sec\\_enforcement.exception\\_service](#): on page 70
- [zone.wireless.wifi\\_sec\\_enforcement.exception\\_service.name](#): on page 70
- [zone.wireless.wifi\\_sec\\_enforcement.exception\\_service.protocol](#): on page 70
- [zone.wireless.wifi\\_sec\\_enforcement.exception\\_service.protocol.name](#): on page 70
- [zone.wireless.wifi\\_sec\\_enforcement.exception\\_service.protocol.begin](#): on page 71
- [zone.wireless.wifi\\_sec\\_enforcement.exception\\_service.protocol.end](#): on page 71
- [zone.wireless.wifi\\_sec\\_for\\_site\\_to\\_site\\_vpn](#): on page 71
- [zone.wireless.trust\\_wpa\\_traffic\\_as\\_wifi\\_sec](#): on page 71



- [zone.wireless.only\\_sonicpoint\\_traffic](#): on page 71
- [zone.guest\\_services](#): on page 71
- [zone.guest\\_services.inter\\_guest](#): on page 71
- [zone.guest\\_services.bypass](#): on page 71
- [zone.guest\\_services.bypass.client](#): on page 71
- [zone.guest\\_services.bypass.client.anti\\_virus](#): on page 72
- [zone.guest\\_services.bypass.client.content\\_filtering](#): on page 72
- [zone.guest\\_services.external\\_auth](#): on page 72
- [zone.guest\\_services.external\\_auth.client\\_redirect](#): on page 72
- [zone.guest\\_services.external\\_auth.web\\_server](#): on page 72
- [zone.guest\\_services.external\\_auth.web\\_server.protocol](#): on page 72
- [zone.guest\\_services.external\\_auth.web\\_server.name](#): on page 72
- [zone.guest\\_services.external\\_auth.web\\_server.port](#): on page 72
- [zone.guest\\_services.external\\_auth.web\\_server.timeout](#): on page 72
- [zone.guest\\_services.external\\_auth.message\\_auth](#): on page 73
- [zone.guest\\_services.external\\_auth.message\\_auth.method](#): on page 73
- [zone.guest\\_services.external\\_auth.message\\_auth.shared\\_secret](#): on page 73
- [zone.guest\\_services.external\\_auth.message\\_auth.confirm\\_secret](#): on page 73
- [zone.guest\\_services.external\\_auth.social\\_network](#): on page 73
- [zone.guest\\_services.external\\_auth.social\\_network.facebook](#): on page 73
- [zone.guest\\_services.external\\_auth.social\\_network.google](#): on page 73
- [zone.guest\\_services.external\\_auth.social\\_network.twitter](#): on page 73
- [zone.guest\\_services.external\\_auth.auth\\_pages](#): on page 73
- [zone.guest\\_services.external\\_auth.auth\\_pages.login](#): on page 74
- [zone.guest\\_services.external\\_auth.auth\\_pages.expiration](#): on page 74
- [zone.guest\\_services.external\\_auth.auth\\_pages.timeout](#): on page 74
- [zone.guest\\_services.external\\_auth.auth\\_pages.max\\_sessions](#): on page 74
- [zone.guest\\_services.external\\_auth.auth\\_pages.traffic\\_exceeded](#): on page 74
- [zone.guest\\_services.external\\_auth.web\\_content](#): on page 74
- [zone.guest\\_services.external\\_auth.web\\_content.redirect](#): on page 74
- [zone.guest\\_services.external\\_auth.web\\_content.redirect.use\\_default](#): on page 74
- [zone.guest\\_services.external\\_auth.web\\_content.redirect.custom](#): on page 74
- [zone.guest\\_services.external\\_auth.web\\_content.server\\_down](#): on page 75
- [zone.guest\\_services.external\\_auth.web\\_content.server\\_down.use\\_default](#): on page 75
- [zone.guest\\_services.external\\_auth.web\\_content.server\\_down.custom](#): on page 75
- [zone.guest\\_services.external\\_auth.logout\\_expired](#): on page 75
- [zone.guest\\_services.external\\_auth.logout\\_expired.every](#): on page 75

- `zone.guest_services.external_auth.logout_expired.cgi`: on page 75
- `zone.guest_services.external_auth.status_check`: on page 75
- `zone.guest_services.external_auth.status_check.every`: on page 75
- `zone.guest_services.external_auth.status_check.cgi`: on page 75
- `zone.guest_services.external_auth.session_sync`: on page 76
- `zone.guest_services.external_auth.session_sync.every`: on page 76
- `zone.guest_services.external_auth.session_sync.cgi`: on page 76
- `zone.guest_services.policy_page_non_authentication`: on page 76
- `zone.guest_services.policy_page_non_authentication.guest_usage_policy`: on page 76
- `zone.guest_services.custom_auth_page`: on page 76
- `zone.guest_services.custom_auth_page.header`: on page 76
- `zone.guest_services.custom_auth_page.header.text`: on page 76
- `zone.guest_services.custom_auth_page.header.url`: on page 76
- `zone.guest_services.custom_auth_page.footer`: on page 77
- `zone.guest_services.custom_auth_page.footer.text`: on page 77
- `zone.guest_services.custom_auth_page.footer.url`: on page 77
- `zone.guest_services.post_auth`: on page 77
- `zone.guest_services.bypass_guest_auth`: on page 77
- `zone.guest_services.bypass_guest_auth.all`: on page 77
- `zone.guest_services.bypass_guest_auth.name`: on page 77
- `zone.guest_services.bypass_guest_auth.group`: on page 77
- `zone.guest_services.bypass_guest_auth.mac`: on page 77
- `zone.guest_services.smtp_redirect`: on page 78
- `zone.guest_services.smtp_redirect.name`: on page 78
- `zone.guest_services.smtp_redirect.host`: on page 78
- `zone.guest_services.deny_networks`: on page 78
- `zone.guest_services.deny_networks.name`: on page 78
- `zone.guest_services.deny_networks.group`: on page 78
- `zone.guest_services.deny_networks.mac`: on page 78
- `zone.guest_services.deny_networks.fqdn`: on page 78
- `zone.guest_services.deny_networks.host`: on page 78
- `zone.guest_services.deny_networks.range`: on page 79
- `zone.guest_services.deny_networks.range.begin`: on page 79
- `zone.guest_services.deny_networks.range.end`: on page 79
- `zone.guest_services.deny_networks.network`: on page 79
- `zone.guest_services.deny_networks.network.subnet`: on page 79
- `zone.guest_services.deny_networks.network.mask`: on page 79

- [zone.guest\\_services.deny\\_networks.ipv6](#): on page 79
- [zone.guest\\_services.deny\\_networks.ipv6.host](#): on page 79
- [zone.guest\\_services.deny\\_networks.ipv6.range](#): on page 79
- [zone.guest\\_services.deny\\_networks.ipv6.range.begin](#): on page 80
- [zone.guest\\_services.deny\\_networks.ipv6.range.end](#): on page 80
- [zone.guest\\_services.deny\\_networks.ipv6.network](#): on page 80
- [zone.guest\\_services.deny\\_networks.ipv6.network.subnet](#): on page 80
- [zone.guest\\_services.deny\\_networks.ipv6.network.mask](#): on page 80
- [zone.guest\\_services.pass\\_networks](#): on page 80
- [zone.guest\\_services.pass\\_networks.name](#): on page 80
- [zone.guest\\_services.pass\\_networks.group](#): on page 80
- [zone.guest\\_services.pass\\_networks.mac](#): on page 80
- [zone.guest\\_services.pass\\_networks.fqdn](#): on page 81
- [zone.guest\\_services.pass\\_networks.host](#): on page 81
- [zone.guest\\_services.pass\\_networks.range](#): on page 81
- [zone.guest\\_services.pass\\_networks.range.begin](#): on page 81
- [zone.guest\\_services.pass\\_networks.range.end](#): on page 81
- [zone.guest\\_services.pass\\_networks.network](#): on page 81
- [zone.guest\\_services.pass\\_networks.network.subnet](#): on page 81
- [zone.guest\\_services.pass\\_networks.network.mask](#): on page 81
- [zone.guest\\_services.pass\\_networks.ipv6](#): on page 81
- [zone.guest\\_services.pass\\_networks.ipv6.host](#): on page 82
- [zone.guest\\_services.pass\\_networks.ipv6.range](#): on page 82
- [zone.guest\\_services.pass\\_networks.ipv6.range.begin](#): on page 82
- [zone.guest\\_services.pass\\_networks.ipv6.range.end](#): on page 82
- [zone.guest\\_services.pass\\_networks.ipv6.network](#): on page 82
- [zone.guest\\_services.pass\\_networks.ipv6.network.subnet](#): on page 82
- [zone.guest\\_services.pass\\_networks.ipv6.network.mask](#): on page 82
- [zone.guest\\_services.max\\_guests](#): on page 82
- [zone.guest\\_services.dynamic\\_address\\_translation](#): on page 82

## zone:

Type: object  
 Flags: -none-  
 Description: Zone object.

## zones:

Type: array  
 Flags: -none-  
 Description: Zone object collection.

## zone.name:

Type: string  
Flags: key  
Description: Zone object name.

## zone.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## zone.security\_type:

Type: string  
Flags: -none-  
Description: Set zone security type.

## zone.interface\_trust:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable allow interface trust.

## zone.auto\_generate\_access\_rules:

Type: object  
Flags: -none-  
Description: Enable auto generate access rules.

## zone.auto\_generate\_access\_rules.allow\_from\_to\_equal:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow traffic between zones with the same trust level.

## zone.auto\_generate\_access\_rules.allow\_from\_higher:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow traffic from zones with higher trust level.

## zone.auto\_generate\_access\_rules.allow\_to\_lower:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow traffic to zones with lower trust level.

## zone.auto\_generate\_access\_rules.deny\_from\_lower:

Type: boolean (true|false)  
Flags: -none-  
Description: Deny traffic from zones with lower trust level.

## zone.websense\_content\_filtering:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable enforce websense enterprise content filtering service.

## zone.client:

Type: object  
Flags: -none-  
Description: Client settings

## zone.client.anti\_virus:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable client anti-virus enforcement service.

## zone.client.content\_filtering:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable client content filtering services enforcement service.

## zone.gateway\_anti\_virus:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable gateway anti-virus service.

## zone.intrusion\_prevention:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable intrusion prevention service.

## zone.app\_control:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable app control service.

## zone.anti\_spyware:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable anti-spyware service.

## zone.create\_group\_vpn:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable automatic creation of group VPN for this zone.

## zone.ssl\_control:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable SSL-Control on this zone.

## zone.sslvpn\_access:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable SSL-VPN access this zone.

## zone.wireless:

Type: object  
Flags: -none-  
Description: Enter wireless zone configuration mode.

## zone.wireless.sslvpn\_enforcement:

Type: object  
Flags: -none-  
Description: Enable SSLVPN enforcement. Set to null or {} if disabled/unconfigured.

## zone.wireless.sslvpn\_enforcement.server:

Type: object  
Flags: -none-  
Description: Set the SSLVPN server as a named address object.

## zone.wireless.sslvpn\_enforcement.server.name:

Type: string  
Flags: -none-  
Description: Host address object name.

## zone.wireless.sslvpn\_enforcement.server.host:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D. IPv6 host address in the form:  
HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.wireless.sslvpn\_enforcement.service:

Type: object  
Flags: -none-  
Description: Set the SSLVPN service as a named service object.

## zone.wireless.sslvpn\_enforcement.service.name:

Type: string  
Flags: -none-  
Description: Service object name.

## **zone.wireless.sslvpn\_enforcement.service.protocol:**

Type: object  
Flags: -none-  
Description: Set the SSLVPN service as a protocol.

## **zone.wireless.sslvpn\_enforcement.service.protocol.name:**

Type: string  
Flags: -none-  
Description: Service protocol.

## **zone.wireless.sslvpn\_enforcement.service.protocol.begin:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **zone.wireless.sslvpn\_enforcement.service.protocol.end:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **zone.wireless.wifi\_sec\_enforcement:**

Type: object  
Flags: -none-  
Description: Enable WiFiSec enforcement.

## **zone.wireless.wifi\_sec\_enforcement.exception\_service:**

Type: object  
Flags: -none-  
Description: Specify services that are allowed to bypass wifisec enforcement.

## **zone.wireless.wifi\_sec\_enforcement.exception\_service.name:**

Type: string  
Flags: -none-  
Description: Service object name.

## **zone.wireless.wifi\_sec\_enforcement.exception\_service.protocol**

**:**

Type: object  
Flags: -none-  
Description: Set the WiFiSec exception service as a protocol.

## **zone.wireless.wifi\_sec\_enforcement.exception\_service.protocol.name:**

Type: string  
Flags: -none-  
Description: Service protocol.

## **zone.wireless.wifi\_sec\_enforcement.exception\_service.protocol.begin:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **zone.wireless.wifi\_sec\_enforcement.exception\_service.protocol.end:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **zone.wireless.wifi\_sec\_for\_site\_to\_site\_vpn:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable WiFiSec for site-to-site VPN tunnel traversal.

## **zone.wireless.trust\_wpa\_traffic\_as\_wifi\_sec:**

Type: boolean (true|false)  
Flags: -none-  
Description: Trust WPA / WPA2 traffic as WiFiSec.

## **zone.wireless.only\_sonicpoint\_traffic:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable only allow traffic generated by a SonicPoint/SonicPointN.

## **zone.guest\_services:**

Type: object  
Flags: -none-  
Description: Enable zone guest services and enter configuration mode. Set to null or {} if disabled/unconfigured.

## **zone.guest\_services.inter\_guest:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable inter-guest communication.

## **zone.guest\_services.bypass:**

Type: object  
Flags: -none-  
Description: Enable bypass check for guest clients.

## **zone.guest\_services.bypass.client:**

Type: object  
Flags: -none-  
Description: Enable bypass check for guest clients.



## zone.guest\_services.bypass.client.anti\_virus:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable bypass anti-virus check for guests.

## zone.guest\_services.bypass.client.content\_filtering:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable bypass client content filtering check for guests.

## zone.guest\_services.external\_auth:

Type: object  
Flags: -none-  
Description: Enable external guest authentication and enter its configuration mode. Set to null or {} if disabled/unconfigured.

## zone.guest\_services.external\_auth.client\_redirect:

Type: string  
Flags: -none-  
Description: Set local web server settings for client redirect.

## zone.guest\_services.external\_auth.web\_server:

Type: object  
Flags: -none-  
Description: Configure the external web server settings.

## zone.guest\_services.external\_auth.web\_server.protocol:

Type: string  
Flags: -none-  
Description: Configure the external web server protocol.

## zone.guest\_services.external\_auth.web\_server.name:

Type: string  
Flags: -none-  
Description: FQDN/host address object name.

## zone.guest\_services.external\_auth.web\_server.port:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## zone.guest\_services.external\_auth.web\_server.timeout:

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **zone.guest\_services.external\_auth.message\_auth:**

Type: object  
Flags: -none-  
Description: Enable external message authentication.

## **zone.guest\_services.external\_auth.message\_auth.method:**

Type: string  
Flags: -none-  
Description: Set external message authentication method.

## **zone.guest\_services.external\_auth.message\_auth.shared\_secret:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.message\_auth.confirm\_secret:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.social\_network:**

Type: object  
Flags: -none-  
Description: Enable social network login.

## **zone.guest\_services.external\_auth.social\_network.facebook:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Facebook social network login.

## **zone.guest\_services.external\_auth.social\_network.google:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Google social network login.

## **zone.guest\_services.external\_auth.social\_network.twitter:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Twitter social network login.

## **zone.guest\_services.external\_auth.auth\_pages:**

Type: object  
Flags: -none-  
Description: Configure the external authentication pages.

## **zone.guest\_services.external\_auth.auth\_pages.login:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.auth\_pages.expiration:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.auth\_pages.timeout:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.auth\_pages.max\_sessions:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.auth\_pages.traffic\_exceeded :**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.web\_content:**

Type: object  
Flags: -none-  
Description: Configure the Web content messages.

## **zone.guest\_services.external\_auth.web\_content.redirect:**

Type: object  
Flags: -none-  
Description: Configure the Web content redirect message.

## **zone.guest\_services.external\_auth.web\_content.redirect.use\_default:**

Type: boolean (true)  
Flags: -none-  
Description: Use the default Web content redirect message.

## **zone.guest\_services.external\_auth.web\_content.redirect.custom:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.web\_content.server\_down:**

Type: object  
Flags: -none-  
Description: Configure the Web content server down message.

## **zone.guest\_services.external\_auth.web\_content.server\_down.use\_default:**

Type: boolean (true)  
Flags: -none-  
Description: Use the default Web content server down message.

## **zone.guest\_services.external\_auth.web\_content.server\_down.custom:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.logout\_expired:**

Type: object  
Flags: -none-  
Description: Enable auto-session logout.

## **zone.guest\_services.external\_auth.logout\_expired.every:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **zone.guest\_services.external\_auth.logout\_expired.cgi:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.status\_check:**

Type: object  
Flags: -none-  
Description: Enable server status check.

## **zone.guest\_services.external\_auth.status\_check.every:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **zone.guest\_services.external\_auth.status\_check.cgi:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.external\_auth.session\_sync:**

Type: object  
Flags: -none-  
Description: Enable session synchronization.

## **zone.guest\_services.external\_auth.session\_sync.every:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **zone.guest\_services.external\_auth.session\_sync.cgi:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.policy\_page\_non\_authentication:**

Type: object  
Flags: -none-  
Description: Enable policy page without authentication and enter its configuration mode. Set to null or {} if disabled/unconfigured.

## **zone.guest\_services.policy\_page\_non\_authentication.guest\_usage\_policy:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.custom\_auth\_page:**

Type: object  
Flags: -none-  
Description: Enable custom authentication page and enter its configuration mode. Set to null or {} if disabled/unconfigured.

## **zone.guest\_services.custom\_auth\_page.header:**

Type: object  
Flags: -none-  
Description: Configure custom page header.

## **zone.guest\_services.custom\_auth\_page.header.text:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.custom\_auth\_page.header.url:**

Type: string (web url)  
Flags: -none-  
Description: URL in the form: http://host/file

## **zone.guest\_services.custom\_auth\_page.footer:**

Type: object  
Flags: -none-  
Description: Configure custom login page footer.

## **zone.guest\_services.custom\_auth\_page.footer.text:**

Type: string  
Flags: -none-  
Description:

## **zone.guest\_services.custom\_auth\_page.footer.url:**

Type: string (web url)  
Flags: -none-  
Description: URL in the form: http://host/file

## **zone.guest\_services.post\_auth:**

Type: string (web url)  
Flags: -none-  
Description: URL in the form: http://host/file

## **zone.guest\_services.bypass\_guest\_auth:**

Type: object  
Flags: -none-  
Description: Enable bypass guest authentication. Set to null or {} if disabled/unconfigured.

## **zone.guest\_services.bypass\_guest\_auth.all:**

Type: boolean (true)  
Flags: -none-  
Description: All MAC addresses.

## **zone.guest\_services.bypass\_guest\_auth.name:**

Type: string  
Flags: -none-  
Description: MAC address object name.

## **zone.guest\_services.bypass\_guest\_auth.group:**

Type: string  
Flags: -none-  
Description: MAC group address object name.

## **zone.guest\_services.bypass\_guest\_auth.mac:**

Type: string (mac)  
Flags: -none-  
Description: Address object MAC address in the form: HH:HH:HH:HH:HH:HH or HHHHHHHHHHHH or HH-HH-HH-HH-HH-HH.

## zone.guest\_services.smtp\_redirect:

Type: object  
Flags: -none-  
Description: Redirect SMTP traffic to specified server. Set to null or {} if disabled/unconfigured.

## zone.guest\_services.smtp\_redirect.name:

Type: string  
Flags: -none-  
Description: Host address object name.

## zone.guest\_services.smtp\_redirect.host:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D. IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks:

Type: object  
Flags: -none-  
Description: Enable blocking of traffic to the named network.

## zone.guest\_services.deny\_networks.name:

Type: string  
Flags: -none-  
Description: Address object name.

## zone.guest\_services.deny\_networks.group:

Type: string  
Flags: -none-  
Description: Group address object name.

## zone.guest\_services.deny\_networks.mac:

Type: string (mac)  
Flags: -none-  
Description: Address object MAC address in the form: HH:HH:HH:HH:HH:HH or HHHHHHHHHHHH or HH-HH-HH-HH-HH-HH.

## zone.guest\_services.deny\_networks.fqdn:

Type: string (fqdn)  
Flags: -none-  
Description: FQDN in the form: example.com or \*.example.com.

## zone.guest\_services.deny\_networks.host:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D. IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.range:

Type: object  
Flags: -none-  
Description: Set the denied networks to range of addresses.

## zone.guest\_services.deny\_networks.range.begin:

Type: string (ip)  
Flags: -none-  
Description: IPv4 starting range in the form: D.D.D.D. IPv6 starting range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.range.end:

Type: string (ip)  
Flags: -none-  
Description: IPv4 ending range in the form: D.D.D.D. IPv6 ending range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.network:

Type: object  
Flags: -none-  
Description: Set the denied networks to network address.

## zone.guest\_services.deny\_networks.network.subnet:

Type: string (ip)  
Flags: -none-  
Description: IPv4 network in the form: D.D.D.D. IPv6 network in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.network.mask:

Type: string (subnet)  
Flags: -none-  
Description: IPv4 netmask in decimal dotted or CIDR form: D.D.D.D OR /D. IPv6 netmask in the form: /D.

## zone.guest\_services.deny\_networks.ipv6:

Type: object  
Flags: -none-  
Description: IPv6 address object.

## zone.guest\_services.deny\_networks.ipv6.host:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D. IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.ipv6.range:

Type: object  
Flags: -none-  
Description: Set the denied networks to range of addresses.



## zone.guest\_services.deny\_networks.ipv6.range.begin:

Type: string (ip)  
Flags: -none-  
Description: IPv4 starting range in the form: D.D.D.D. IPv6 starting range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.ipv6.range.end:

Type: string (ip)  
Flags: -none-  
Description: IPv4 ending range in the form: D.D.D.D. IPv6 ending range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.ipv6.network:

Type: object  
Flags: -none-  
Description: Set the denied networks to network address.

## zone.guest\_services.deny\_networks.ipv6.network.subnet:

Type: string (ip)  
Flags: -none-  
Description: IPv4 network in the form: D.D.D.D. IPv6 network in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.deny\_networks.ipv6.network.mask:

Type: string (subnet)  
Flags: -none-  
Description: IPv4 netmask in decimal dotted or CIDR form: D.D.D.D OR /D. IPv6 netmask in the form: /D.

## zone.guest\_services.pass\_networks:

Type: object  
Flags: -none-  
Description: Enable allowing of traffic to the named network.

## zone.guest\_services.pass\_networks.name:

Type: string  
Flags: -none-  
Description: Address object name.

## zone.guest\_services.pass\_networks.group:

Type: string  
Flags: -none-  
Description: Group address object name.

## zone.guest\_services.pass\_networks.mac:

Type: string (mac)  
Flags: -none-  
Description: Address object MAC address in the form: HH:HH:HH:HH:HH:HH or HHHHHHHHHHHH or HH-HH-HH-HH-HH-HH.

## zone.guest\_services.pass\_networks.fqdn:

Type: string (fqdn)  
Flags: -none-  
Description: FQDN in the form: example.com or \*.example.com.

## zone.guest\_services.pass\_networks.host:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D. IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.range:

Type: object  
Flags: -none-  
Description: Set the pass networks to range of addresses.

## zone.guest\_services.pass\_networks.range.begin:

Type: string (ip)  
Flags: -none-  
Description: IPv4 starting range in the form: D.D.D.D. IPv6 starting range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.range.end:

Type: string (ip)  
Flags: -none-  
Description: IPv4 ending range in the form: D.D.D.D. IPv6 ending range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.network:

Type: object  
Flags: -none-  
Description: Set the pass networks to network address.

## zone.guest\_services.pass\_networks.network.subnet:

Type: string (ip)  
Flags: -none-  
Description: IPv4 network in the form: D.D.D.D. IPv6 network in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.network.mask:

Type: string (subnet)  
Flags: -none-  
Description: IPv4 netmask in decimal dotted or CIDR form: D.D.D.D OR /D. IPv6 netmask in the form: /D.

## zone.guest\_services.pass\_networks.ipv6:

Type: object  
Flags: -none-  
Description: IPv6 address object.

## zone.guest\_services.pass\_networks.ipv6.host:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D. IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.ipv6.range:

Type: object  
Flags: -none-  
Description: Set the pass networks to range of addresses.

## zone.guest\_services.pass\_networks.ipv6.range.begin:

Type: string (ip)  
Flags: -none-  
Description: IPv4 starting range in the form: D.D.D.D. IPv6 starting range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.ipv6.range.end:

Type: string (ip)  
Flags: -none-  
Description: IPv4 ending range in the form: D.D.D.D. IPv6 ending range in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.ipv6.network:

Type: object  
Flags: -none-  
Description: Set the pass networks to network address.

## zone.guest\_services.pass\_networks.ipv6.network.subnet:

Type: string (ip)  
Flags: -none-  
Description: IPv4 network in the form: D.D.D.D. IPv6 network in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## zone.guest\_services.pass\_networks.ipv6.network.mask:

Type: string (subnet)  
Flags: -none-  
Description: IPv4 netmask in decimal dotted or CIDR form: D.D.D.D OR /D. IPv6 netmask in the form: /D.

## zone.guest\_services.max\_guests:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## zone.guest\_services.dynamic\_address\_translation:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable dynamic address translation.

## API: DNS

- [Endpoint](#) on page 83
- [Schema Structure](#) on page 83
  - [Object: DNS](#) on page 83
  - [Schema Attributes](#) on page 84

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <code>/api/sonicos/dns</code>	Empty	—	Required	—
<b>Schema:</b> <code>collection#dns-config</code>				

### Schema Structure

#### Topics:

- [Object: DNS](#) on page 83
- [Schema Attributes](#) on page 84

### Object: DNS

```
{
  "dns": {
    "server": {
      "inherit": {true},
      | "static": {
        "primary": "{string}",
        "secondary": "{string}",
        "tertiary": "{string}"
      }
    }
    "ipv6": {
      "preferred": {boolean},
      "inherit": {true},
      | "static": {
        "primary": "{string}",
        "secondary": "{string}",
        "tertiary": "{string}"
      }
    }
  }
}
```

```

    },
    "rebinding": {
      "action": "{string}",

      "allowed_domains": {
        "name": "{string}",
        | "group": "{string}"
      }
    },

    "fqdn_binding": {boolean}
  }
}

```

## Schema Attributes

### Topics:

- [dns](#): on page 84
- [dns.server](#): on page 85
- [dns.server.inherit](#): on page 85
- [dns.server.static](#): on page 85
- [dns.server.static.primary](#): on page 85
- [dns.server.static.secondary](#): on page 85
- [dns.server.static.tertiary](#): on page 85
- [dns.server.ipv6](#): on page 85
- [dns.server.ipv6.preferred](#): on page 85
- [dns.server.ipv6.inherit](#): on page 85
- [dns.server.ipv6.static](#): on page 86
- [dns.server.ipv6.static.primary](#): on page 86
- [dns.server.ipv6.static.secondary](#): on page 86
- [dns.server.ipv6.static.tertiary](#): on page 86
- [dns.rebinding](#): on page 86
- [dns.rebinding.action](#): on page 86
- [dns.rebinding.allowed\\_domains](#): on page 86
- [dns.rebinding.allowed\\_domains.name](#): on page 87
- [dns.rebinding.allowed\\_domains.group](#): on page 87
- [dns.fqdn\\_binding](#): on page 87

### dns:

Type: object  
 Flags: -none-  
 Description: DNS configuration.

## dns.server:

Type: object  
Flags: -none-  
Description: DNS server configuration.

## dns.server.inherit:

Type: boolean (true)  
Flags: -none-  
Description: Inherit DNS servers.

## dns.server.static:

Type: object  
Flags: -none-  
Description: Set static DNS server

## dns.server.static.primary:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D

## dns.server.static.secondary:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D

## dns.server.static.tertiary:

Type: string (ip)  
Flags: -none-  
Description: IPv4 host address in the form: D.D.D.D

## dns.server.ipv6:

Type: object  
Flags: -none-  
Description: Set IPv6 DNS server

## dns.server.ipv6.preferred:

Type: boolean  
Flags: -none-  
Description: Prefer IPv6 DNS servers.

## dns.server.ipv6.inherit:

Type: boolean (true)  
Flags: -none-  
Description: Inherit DNS servers.

## dns.server.ipv6.static:

Type: object  
Flags: -none-  
Description: Set static DNS server

## dns.server.ipv6.static.primary:

Type: string (ip)  
Flags: -none-  
Description: IIPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## dns.server.ipv6.static.secondary:

Type: string (ip)  
Flags: -none-  
Description: IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## dns.server.ipv6.static.tertiary:

Type: string (ip)  
Flags: -none-  
Description: IPv6 host address in the form: HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH

## dns.rebinding:

Type: object  
Flags: -none-  
Description: Enable and configure DNS rebinding attack prevention. Set to null or {} if disabled/unconfigured.

### Disabling rebinding example:

```
{
  "dns": {
    "rebinding": {
    }
  }
}
```

## dns.rebinding.action:

Type: string  
Flags: -none-  
Description: Set action when experiencing attack. Must be one of the following values:  
log-attack-only | return-query-refused | drop-dns-reply

## dns.rebinding.allowed\_domains:

Type: object  
Flags: -none-  
Description: Specify the domains for which checking is not done. Set to null or {} if disabled/unconfigured.

### Disabling allowed\_domains example:

```
{
  "dns": {
    "rebinding": {

```

```
        "allowed_domains": {  
        }  
    }  
}
```

### **dns.rebinding.allowed\_domains.name:**

Type: string  
Flags: -none-  
Description: FQDN address object name.

### **dns.rebinding.allowed\_domains.group:**

Type: string  
Flags: -none-  
Description: Custom FQDN group address object name.

### **dns.fqdn\_binding:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable FQDN object only cache DNS reply from sanctioned server.



## API: Interfaces – IPv4

- [Endpoint](#) on page 88
- [Schema Structure](#) on page 88
  - [Object: Interface – IPv4](#) on page 88
  - [Collection: Interface – IPv4](#) on page 90
  - [Schema Attributes](#) on page 90

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <i>/api/sonicos/interfaces/ipv4</i> Schema: <i>collection#interface-ipv4-config</i>	Empty	—	Required	—
URI: <i>/api/sonicos/interfaces/ipv4</i> Schema: <i>collection#interface-ipv4-config</i>	Empty	—	Required	—

### Schema Structure

#### Topics:

- [Object: Interface – IPv4](#) on page 88
- [Collection: Interface – IPv4](#) on page 90
- [Schema Attributes](#) on page 90

### Object: Interface – IPv4

```
{
  "interface": {
    "ipv4": {
      "name": "{string}",
      "comment": "{string}",

      "ip_assignment": {
        "zone": "{string}",

        "mode": {
          "static": {
            "ip": "{string}",
            "netmask": "{string}",
```

```

        "gateway": "{string}",

        "dns": {
            "primary": "{string}",
            "secondary": "{string}",
            "tertiary": "{string}"
        },

        "backup_ip": "{string}"
    },

    | "dhcp": {
        "hostname": "{string}",
        "renew_on_startup": {boolean},
        "renew_on_link_up": {boolean},
        "initiate_renewals_with_discover": {boolean},
        "force_discover_interval": {number}
    }
}
},

"mtu": {number},

"mac": {
    "default": {true},
    | "override": "{string}"
},

"link_speed": {
    "auto_negotiate": {true},
    | "half": "{string}",
    | "full": "{string}"
},

"management": {
    "http": {boolean},
    "https": {boolean},
    "ping": {boolean},
    "snmp": {boolean},
    "ssh": {boolean}
},

"user_login": {
    "http": {boolean},
    "https": {boolean}
},

"https_redirect": {boolean},
"send_icmp_fragmentation": {boolean},
"fragment_packets": {boolean},
"ignore_df_bit": {boolean},
"flow_reporting": {boolean},
"multicast": {boolean},
"cos_8021p": {boolean},
"exclude_route": {boolean},
"asymmetric_route": {boolean},
"shutdown_port": {boolean},
"default_8021p_cos": "{string}",
"policy": "{string}",

"sonicpoint": {
    "limit": {number},

    "reserve_address": {
        "dynamic": {true},
        | "manual": "{string}"
    }
}

```

```
}  
  }  
}
```

## Collection: Interface – IPv4

```
{  
  "interfaces": [  
    object#interface-ipv4-config,  
    ...  
  ]  
}
```

## Schema Attributes

### Topics:

- [interface](#): on page 91
- [interfaces](#): on page 92
- [interface.ipv4](#): on page 92
- [interface.ipv4.name](#): on page 92
- [interface.ipv4.comment](#): on page 92
- [interface.ipv4.ip\\_assignment](#): on page 92
- [interface.ipv4.ip\\_assignment.zone](#): on page 92
- [interface.ipv4.ip\\_assignment.mode](#): on page 92
- [interface.ipv4.ip\\_assignment.mode.static](#): on page 92
- [interface.ipv4.ip\\_assignment.mode.static.ip](#): on page 92
- [interface.ipv4.ip\\_assignment.mode.static.netmask](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.static.gateway](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.static.dns](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.static.dns.primary](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.static.dns.secondary](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.static.dns.tertiary](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.static.backup\\_ip](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.dhcp](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.dhcp.hostname](#): on page 93
- [interface.ipv4.ip\\_assignment.mode.dhcp.renew\\_on\\_startup](#): on page 94
- [interface.ipv4.ip\\_assignment.mode.dhcp.renew\\_on\\_link\\_up](#): on page 94
- [interface.ipv4.ip\\_assignment.mode.dhcp.initiate\\_renewals\\_with\\_discover](#): on page 94
- [interface.ipv4.ip\\_assignment.mode.dhcp.force\\_discover\\_interval](#): on page 94
- [interface.ipv4.mtu](#): on page 94
- [interface.ipv4.mac](#): on page 94

- [interface.ipv4.mac.default](#): on page 94
- [interface.ipv4.mac.override](#): on page 94
- [interface.ipv4.link\\_speed](#): on page 94
- [interface.ipv4.link\\_speed.auto\\_negotiate](#): on page 95
- [interface.ipv4.link\\_speed.half](#): on page 95
- [interface.ipv4.link\\_speed.full](#): on page 95
- [interface.ipv4.management](#): on page 95
- [interface.ipv4.management.http](#): on page 95
- [interface.ipv4.management.https](#): on page 95
- [interface.ipv4.management.ping](#): on page 95
- [interface.ipv4.management.snmp](#): on page 95
- [interface.ipv4.management.ssh](#): on page 95
- [interface.ipv4.user\\_login](#): on page 96
- [interface.ipv4.user\\_login.http](#): on page 96
- [interface.ipv4.user\\_login.https](#): on page 96
- [interface.ipv4.https\\_redirect](#): on page 96
- [interface.ipv4.send\\_icmp\\_fragmentation](#): on page 96
- [interface.ipv4.fragment\\_packets](#): on page 96
- [interface.ipv4.ignore\\_df\\_bit](#): on page 96
- [interface.ipv4.flow\\_reporting](#): on page 96
- [interface.ipv4.multicast](#): on page 96
- [interface.ipv4.cos\\_8021p](#): on page 97
- [interface.ipv4.exclude\\_route](#): on page 97
- [interface.ipv4.asymmetric\\_route](#): on page 97
- [interface.ipv4.shutdown\\_port](#): on page 97
- [interface.ipv4.default\\_8021p\\_cos](#): on page 97
- [interface.ipv4.policy](#): on page 97
- [interface.ipv4.sonicpoint](#): on page 97
- [interface.ipv4.sonicpoint.limit](#): on page 97
- [interface.ipv4.sonicpoint.reserve\\_address](#): on page 97
- [interface.ipv4.sonicpoint.reserve\\_address.dynamic](#): on page 98
- [interface.ipv4.sonicpoint.reserve\\_address.manual](#): on page 98

## interface:

Type: object  
 Flags: -none-  
 Description: Interface.

## interfaces:

Type: array  
Flags: -none-  
Description: Interface collection.

## interface.ipv4:

Type: object  
Flags: -none-  
Description: IP version IPV4.

## interface.ipv4.name:

Type: string  
Flags: key  
Description: Interface name.

## interface.ipv4.comment:

Type: string  
Flags: -none-  
Description:

## interface.ipv4.ip\_assignment:

Type: object  
Flags: -none-  
Description: Set interface zone and IP assignment. Set to null or {} if disabled/unconfigured.

## interface.ipv4.ip\_assignment.zone:

Type: string  
Flags: -none-  
Description: Zone object name.

## interface.ipv4.ip\_assignment.mode:

Type: object  
Flags: -none-  
Description: Interface IP assignment mode.

## interface.ipv4.ip\_assignment.mode.static:

Type: object  
Flags: -none-  
Description: Static IP address assignment.

## interface.ipv4.ip\_assignment.mode.static.ip:

Type: string (v4 ip)  
Flags: -none-  
Description: IPV4 Address in the form: a.b.c.d

## **interface.ipv4.ip\_assignment.mode.static.netmask:**

Type: string (v4 subnet)  
Flags: -none-  
Description: IPV4 netmask in decimal dotted or CIDR form: D.D.D.D OR /D

## **interface.ipv4.ip\_assignment.mode.static.gateway:**

Type: string (v4 ip)  
Flags: -none-  
Description: IPV4 Address in the form: a.b.c.d

## **interface.ipv4.ip\_assignment.mode.static.dns:**

Type: object  
Flags: -none-  
Description: Set the DNS server IP address.

## **interface.ipv4.ip\_assignment.mode.static.dns.primary:**

Type: string (v4 ip)  
Flags: -none-  
Description: IPV4 Address in the form: a.b.c.d

## **interface.ipv4.ip\_assignment.mode.static.dns.secondary:**

Type: string (v4 ip)  
Flags: -none-  
Description: IPV4 Address in the form: a.b.c.d

## **interface.ipv4.ip\_assignment.mode.static.dns.tertiary:**

Type: string (v4 ip)  
Flags: -none-  
Description: IPV4 Address in the form: a.b.c.d

## **interface.ipv4.ip\_assignment.mode.static.backup\_ip:**

Type: string (v4 ip)  
Flags: -none-  
Description: IPV4 Address in the form: a.b.c.d

## **interface.ipv4.ip\_assignment.mode.dhcp:**

Type: object  
Flags: -none-  
Description: IP address obtained by DHCP.

## **interface.ipv4.ip\_assignment.mode.dhcp.hostname:**

Type: string  
Flags: -none-  
Description:

## interface.ipv4.ip\_assignment.mode.dhcp.renew\_on\_startup:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable request renew of previous IP on startup.

## interface.ipv4.ip\_assignment.mode.dhcp.renew\_on\_link\_up:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable renew DHCP lease on any link up occurrence.

## interface.ipv4.ip\_assignment.mode.dhcp.initiate\_renewals\_with\_discover:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable initiate renewals with a discover when using DHCP.

## interface.ipv4.ip\_assignment.mode.dhcp.force\_discover\_interval:

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHH

## interface.ipv4.mtu:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## interface.ipv4.mac:

Type: object  
Flags: -none-  
Description: Set MAC address used for this interface.

## interface.ipv4.mac.default:

Type: boolean (true)  
Flags: -none-  
Description: Factory configured MAC.

## interface.ipv4.mac.override:

Type: string (mac)  
Flags: -none-  
Description: MAC address in the form: HH:HH:HH:HH:HH:HH OR HHHHHHHHHHHH

## interface.ipv4.link\_speed:

Type: object  
Flags: -none-  
Description: Set interface link speed.

## interface.ipv4.link\_speed.auto\_negotiate:

Type: boolean (true)  
Flags: -none-  
Description: Set interface link speed to auto-negotiate.

## interface.ipv4.link\_speed.half:

Type: string  
Flags: -none-  
Description: Half duplex.

## interface.ipv4.link\_speed.full:

Type: string  
Flags: -none-  
Description: Full duplex.

## interface.ipv4.management:

Type: object  
Flags: -none-  
Description: Enable management for the specified protocols.

## interface.ipv4.management.http:

Type: boolean (true|false)  
Flags: -none-  
Description: HTTP.

## interface.ipv4.management.https:

Type: boolean (true|false)  
Flags: -none-  
Description: HTTPS.

## interface.ipv4.management.ping:

Type: boolean (true|false)  
Flags: -none-  
Description: Ping.

## interface.ipv4.management.snmp:

Type: boolean (true|false)  
Flags: -none-  
Description: SNMP.

## interface.ipv4.management.ssh:

Type: boolean (true|false)  
Flags: -none-  
Description: SSH.



## interface.ipv4.user\_login:

Type: object  
Flags: -none-  
Description: Enable user login for the specified protocols.

## interface.ipv4.user\_login.http:

Type: boolean (true|false)  
Flags: -none-  
Description: HTTP.

## interface.ipv4.user\_login.https:

Type: boolean (true|false)  
Flags: -none-  
Description: HTTPS.

## interface.ipv4.https\_redirect:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable redirection from HTTP to HTTPS.

## interface.ipv4.send\_icmp\_fragmentation:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable ICMP fragmentation needed message generation.

## interface.ipv4.fragment\_packets:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable fragment non-VPN outbound packets larger than this interface's MTU.

## interface.ipv4.ignore\_df\_bit:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable ignore don't fragment (DF) bit.

## interface.ipv4.flow\_reporting:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable flow reporting on the interface.

## interface.ipv4.multicast:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable multicast support.

## interface.ipv4.cos\_8021p:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable 802.1p support.

## interface.ipv4.exclude\_route:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable exclude from route advertisement (NSM, OSPF, BGP, RIP).

## interface.ipv4.asymmetric\_route:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable asymmetric route.

## interface.ipv4.shutdown\_port:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable shutdown port.

## interface.ipv4.default\_8021p\_cos:

Type: string  
Flags: -none-  
Description: Enable default 802.1p CoS.

## interface.ipv4.policy:

Type: string  
Flags: -none-  
Description: Tunnel interface VPN policy name.

## interface.ipv4.sonicpoint:

Type: object  
Flags: -none-  
Description: Set SonicPoint parameter.

## interface.ipv4.sonicpoint.limit:

Type: number (uint32)  
Flags: -none-  
Description: SonicPoint limit per interface.

## interface.ipv4.sonicpoint.reserve\_address:

Type: object  
Flags: -none-  
Description: Set dynamically or manually reserve SonicPoint address.

## **interface.ipv4.sonicpoint.reserve\_address.dynamic:**

Type: boolean (true)

Flags: -none-

Description: Dynamically reserve SonicPoint address.

## **interface.ipv4.sonicpoint.reserve\_address.manual:**

Type: string (v4 ip)

Flags: -none-

Description: IPV4 Address in the form: a.b.c.d

## API: NAT Policies – IPv4

- [Endpoint](#) on page 99
- [Schema Structure](#) on page 99
  - [Object: NAT Policies – IPv4](#) on page 99
  - [Collection: NAT Policies – IPv4](#) on page 101
  - [Schema Attributes](#) on page 101

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/nat-policies/ipv4</i> <b>Schema:</b> <i>collection#nat-policies-ipv4-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/nat-policies/ipv4</i> <b>Schema:</b> <i>collection#nat-policies-ipv4-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: NAT Policies – IPv4](#) on page 99
- [Collection: NAT Policies – IPv4](#) on page 101
- [Schema Attributes](#) on page 101

### Object: NAT Policies – IPv4

```
{
  "nat_policy": {
    "ipv4": {
      "inbound": "{string}",
      "outbound": "{string}",

      "source": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
      },

      "translated_source": {
```

```

        "original": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "destination": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "translated_destination": {
        "original": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "service": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "translated_service": {
        "original": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "uuid": "{string}",
    "name": "{string}",
    "enable": {boolean},
    "comment": "{string}",

    "priority": {
        "auto": {true},
        | "manual": {number}
    },

    "reflexive": {boolean},

    "virtual_group": {
        "any": {true},
        | "id": {number}
    },

    "nat_method": "{string}",
    "source_port_remap": {boolean},

    "high_availability": {
        "probing": {
            "probe_every": {number},

            "probe_type": {
                "icmp_ping": {true},
                | "tcp": {number}
            },

            "reply_timeout": {number},
            "deactivate_after": {number},
            "reactivate_after": {number},
            "rst_as_miss": {boolean},
            "port_probing": {boolean}
        }
    }
}

```

```
}  
}
```

## Collection: NAT Policies – IPv4

```
{  
  "nat_policies": [  
    object#nat-policy-ipv4-config,  
    ...  
  ]  
}
```

## Schema Attributes

### Topics:

- [nat\\_policy](#): on page 102
- [nat\\_policies](#): on page 102
- [nat\\_policy.ipv4](#): on page 103
- [nat\\_policy.ipv4.inbound](#): on page 103
- [nat\\_policy.ipv4.outbound](#): on page 103
- [nat\\_policy.ipv4.source](#): on page 103
- [nat\\_policy.ipv4.source.any](#): on page 103
- [nat\\_policy.ipv4.source.name](#): on page 103
- [nat\\_policy.ipv4.source.group](#): on page 103
- [nat\\_policy.ipv4.translated\\_source](#): on page 103
- [nat\\_policy.ipv4.translated\\_source.original](#): on page 103
- [nat\\_policy.ipv4.translated\\_source.name](#): on page 104
- [nat\\_policy.ipv4.translated\\_source.group](#): on page 104
- [nat\\_policy.ipv4.destination](#): on page 104
- [nat\\_policy.ipv4.destination.any](#): on page 104
- [nat\\_policy.ipv4.destination.name](#): on page 104
- [nat\\_policy.ipv4.destination.group](#): on page 104
- [nat\\_policy.ipv4.translated\\_destination](#): on page 104
- [nat\\_policy.ipv4.translated\\_destination.original](#): on page 104
- [nat\\_policy.ipv4.translated\\_destination.name](#): on page 104
- [nat\\_policy.ipv4.translated\\_destination.group](#): on page 105
- [nat\\_policy.ipv4.service](#): on page 105
- [nat\\_policy.ipv4.service.any](#): on page 105
- [nat\\_policy.ipv4.service.name](#): on page 105
- [nat\\_policy.ipv4.service.group](#): on page 105
- [nat\\_policy.ipv4.translated\\_service](#): on page 105

- `nat_policy.ipv4.translated_service.original`: on page 105
- `nat_policy.ipv4.translated_service.name`: on page 105
- `nat_policy.ipv4.translated_service.group`: on page 105
- `nat_policy.ipv4.uuid`: on page 106
- `nat_policy.ipv4.name`: on page 106
- `nat_policy.ipv4.enable`: on page 106
- `nat_policy.ipv4.comment`: on page 106
- `nat_policy.ipv4.priority`: on page 106
- `nat_policy.ipv4.priority.auto`: on page 106
- `nat_policy.ipv4.priority.manual`: on page 106
- `nat_policy.ipv4.reflexive`: on page 106
- `nat_policy.ipv4.virtual_group`: on page 106
- `nat_policy.ipv4.virtual_group.any`: on page 107
- `nat_policy.ipv4.virtual_group.id`: on page 107
- `nat_policy.ipv4.nat_method`: on page 107
- `nat_policy.ipv4.source_port_remap`: on page 107
- `nat_policy.ipv4.high_availability`: on page 107
- `nat_policy.ipv4.high_availability.probing`: on page 107
- `nat_policy.ipv4.high_availability.probing.probe_every`: on page 107
- `nat_policy.ipv4.high_availability.probing.probe_type`: on page 107
- `nat_policy.ipv4.high_availability.probing.probe_type.icmp_ping`: on page 107
- `nat_policy.ipv4.high_availability.probing.probe_type.tcp`: on page 108
- `nat_policy.ipv4.high_availability.probing.reply_timeout`: on page 108
- `nat_policy.ipv4.high_availability.probing.deactivate_after`: on page 108
- `nat_policy.ipv4.high_availability.probing.reactivate_after`: on page 108
- `nat_policy.ipv4.high_availability.probing.port_probing`: on page 108
- `nat_policy.ipv4.high_availability.probing.rst_as_miss`: on page 108

## nat\_policy:

Type: object  
 Flags: -none-  
 Description: NAT policy.

## nat\_policies:

Type: array  
 Flags: -none-  
 Description: NAT policy collection.

## **nat\_policy.ipv4:**

Type: object  
Flags: -none-  
Description: IPv4 NAT policy.

## **nat\_policy.ipv4.inbound:**

Type: string  
Flags: key  
Description: Interface name.

## **nat\_policy.ipv4.outbound:**

Type: string  
Flags: key  
Description: Interface name.

## **nat\_policy.ipv4.source:**

Type: object  
Flags: key  
Description: Specify the original source for the NAT policy.

## **nat\_policy.ipv4.source.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **nat\_policy.ipv4.source.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv4.source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv4.translated\_source:**

Type: object  
Flags: key  
Description: Specify the translated source for the NAT policy.

## **nat\_policy.ipv4.translated\_source.original:**

Type: boolean (true)  
Flags: key  
Description: Original source IP.



## **nat\_policy.ipv4.translated\_source.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv4.translated\_source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv4.destination:**

Type: object  
Flags: key  
Description: Specify the original destination for the NAT policy.

## **nat\_policy.ipv4.destination.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **nat\_policy.ipv4.destination.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv4.destination.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv4.translated\_destination:**

Type: object  
Flags: key  
Description: Specify the translated destination for the NAT policy.

## **nat\_policy.ipv4.translated\_destination.original:**

Type: boolean (true)  
Flags: key  
Description: Original destination IP.

## **nat\_policy.ipv4.translated\_destination.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv4.translated\_destination.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv4.service:**

Type: object  
Flags: key  
Description: Specify the original service for the NAT policy.

## **nat\_policy.ipv4.service.any:**

Type: boolean (true)  
Flags: key  
Description: Any service.

## **nat\_policy.ipv4.service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **nat\_policy.ipv4.service.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **nat\_policy.ipv4.translated\_service:**

Type: object  
Flags: key  
Description: Specify the translated service for the NAT policy.

## **nat\_policy.ipv4.translated\_service.original:**

Type: boolean (true)  
Flags: key  
Description: Original service.

## **nat\_policy.ipv4.translated\_service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **nat\_policy.ipv4.translated\_service.group:**

Type: string  
Flags: key  
Description: Service object group name.

## nat\_policy.ipv4.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## nat\_policy.ipv4.name:

Type: string  
Flags: required  
Description: Name.

## nat\_policy.ipv4.enable:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable NAT policy.

## nat\_policy.ipv4.comment:

Type: string  
Flags: -none-  
Description:

## nat\_policy.ipv4.priority:

Type: object  
Flags: -none-  
Description: Set NAT policy priority

## nat\_policy.ipv4.priority.auto:

Type: boolean (true)  
Flags: -none-  
Description: Set auto priority(priority = 0) for NAT policy.

## nat\_policy.ipv4.priority.manual:

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHH

## nat\_policy.ipv4.reflexive:

Type: boolean (true|false)  
Flags: -none-  
Description: Configure a reflexive rule.

## nat\_policy.ipv4.virtual\_group:

Type: object  
Flags: -none-  
Description: Specify virtual group for the NAT policy.

## **nat\_policy.ipv4.virtual\_group.any:**

Type: boolean (true)  
Flags: -none-  
Description: Any virtual group.

## **nat\_policy.ipv4.virtual\_group.id:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **nat\_policy.ipv4.nat\_method:**

Type: string  
Flags: -none-  
Description: Set the NAT destination translation method.

## **nat\_policy.ipv4.source\_port\_remap:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable source port remap.

## **nat\_policy.ipv4.high\_availability:**

Type: object  
Flags: -none-  
Description: NAT high availability and load balancing configuration mode.

## **nat\_policy.ipv4.high\_availability.probing:**

Type: object  
Flags: -none-  
Description: Enable HA probing and enter configuration mode.

## **nat\_policy.ipv4.high\_availability.probing.probe\_every:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **nat\_policy.ipv4.high\_availability.probing.probe\_type:**

Type: object  
Flags: -none-  
Description: Set probe IP type.

## **nat\_policy.ipv4.high\_availability.probing.probe\_type.icmp\_ping :**

Type: boolean (true)  
Flags: -none-  
Description: ICMP ping probe.

## **nat\_policy.ipv4.high\_availability.probing.probe\_type.tcp:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **nat\_policy.ipv4.high\_availability.probing.reply\_timeout:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **nat\_policy.ipv4.high\_availability.probing.deactivate\_after:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **nat\_policy.ipv4.high\_availability.probing.reactivate\_after:**

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## **nat\_policy.ipv4.high\_availability.probing.rst\_as\_miss:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable count RST response as miss.

## **nat\_policy.ipv4.high\_availability.probing.port\_probing:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable port probing.

## API: NAT Policies – IPv6

- [Endpoint](#) on page 109
- [Schema Structure](#) on page 109
  - [Object: NAT Policies – IPv6](#) on page 109
  - [Schema Attributes](#) on page 110

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/nat-policies/ipv6</i> <b>Schema:</b> <i>collection#nat-policies-ipv6-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/nat-policies/ipv6</i> <b>Schema:</b> <i>collection#nat-policies-ipv6-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: NAT Policies – IPv6](#) on page 109
- [Schema Attributes](#) on page 110

### Object: NAT Policies – IPv6

```
{
  "nat_policy": {
    "ipv6": {
      "inbound": "{string}",
      "outbound": "{string}",

      "source": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
      },

      "translated_source": {
        "original": {true},
        | "name": "{string}",
        | "group": "{string}"
      }
    }
  }
}
```

```

    },
    "destination": {
      "any": {true},
      | "name": "{string}",
      | "group": "{string}"
    },
    "translated_destination": {
      "original": {true},
      | "name": "{string}",
      | "group": "{string}"
    },
    "service": {
      "any": {true},
      | "name": "{string}",
      | "group": "{string}"
    },
    "translated_service": {
      "original": {true},
      | "name": "{string}",
      | "group": "{string}"
    },
    "uuid": "{string}",
    "name": "{string}",
    "enable": {boolean},
    "comment": "{string}",
    "priority": {
      "auto": {true},
      | "manual": {number}
    },
    "reflexive": {boolean},
    "virtual_group": {
      "any": {true},
      | "id": {number}
    }
  }
}

```

## Schema Attributes

### Topics:

- [nat\\_policy](#): on page 111
- [nat\\_policies](#): on page 112
- [nat\\_policy.ipv6](#): on page 112
- [nat\\_policy.ipv6.inbound](#): on page 112
- [nat\\_policy.ipv6.outbound](#): on page 112
- [nat\\_policy.ipv6.source](#): on page 112
- [nat\\_policy.ipv6.source.any](#): on page 112
- [nat\\_policy.ipv6.source.name](#): on page 112

- [nat\\_policy.ipv6.source.group](#): on page 112
- [nat\\_policy.ipv6.translated\\_source](#): on page 112
- [nat\\_policy.ipv6.translated\\_source.original](#): on page 113
- [nat\\_policy.ipv6.translated\\_source.name](#): on page 113
- [nat\\_policy.ipv6.translated\\_source.group](#): on page 113
- [nat\\_policy.ipv6.destination](#): on page 113
- [nat\\_policy.ipv6.destination.any](#): on page 113
- [nat\\_policy.ipv6.destination.name](#): on page 113
- [nat\\_policy.ipv6.destination.group](#): on page 113
- [nat\\_policy.ipv6.translated\\_destination](#): on page 113
- [nat\\_policy.ipv6.translated\\_destination.original](#): on page 113
- [nat\\_policy.ipv6.translated\\_destination.name](#): on page 114
- [nat\\_policy.ipv6.translated\\_destination.group](#): on page 114
- [nat\\_policy.ipv6.service.any](#): on page 114
- [nat\\_policy.ipv6.service.name](#): on page 114
- [nat\\_policy.ipv6.service.group](#): on page 114
- [nat\\_policy.ipv6.translated\\_service](#): on page 114
- [nat\\_policy.ipv6.translated\\_service.original](#): on page 114
- [nat\\_policy.ipv6.translated\\_service.name](#): on page 114
- [nat\\_policy.ipv6.translated\\_service.group](#): on page 114
- [nat\\_policy.ipv6.uuid](#): on page 115
- [nat\\_policy.ipv6.name](#): on page 115
- [nat\\_policy.ipv6.enable](#): on page 115
- [nat\\_policy.ipv6.comment](#): on page 115
- [nat\\_policy.ipv6.comment](#): on page 115
- [nat\\_policy.ipv6.priority](#): on page 115
- [nat\\_policy.ipv6.priority.auto](#): on page 115
- [nat\\_policy.ipv6.priority.manual](#): on page 115
- [nat\\_policy.ipv6.reflexive](#): on page 115
- [nat\\_policy.ipv6.reflexive](#): on page 115
- [nat\\_policy.ipv6.virtual\\_group](#): on page 115
- [nat\\_policy.ipv6.virtual\\_group.any](#): on page 116
- [nat\\_policy.ipv6.virtual\\_group.id](#): on page 116

## nat\_policy:

Type: object  
 Flags: -none-  
 Description: NAT policy.



## nat\_policies:

Type: object  
Flags: -none-  
Description: NAT policy collection.

## nat\_policy.ipv6:

Type: object  
Flags: key  
Description: IPv6 NAT policy.

## nat\_policy.ipv6.inbound:

Type: string  
Flags: key  
Description: Interface name.

## nat\_policy.ipv6.outbound:

Type: string  
Flags: key  
Description: Interface name.

## nat\_policy.ipv6.source:

Type: object  
Flags: key  
Description: Specify the original source for the NAT policy.

## nat\_policy.ipv6.source.any:

Type: boolean (true)  
Flags: key  
Description: Any host.

## nat\_policy.ipv6.source.name:

Type: string  
Flags: key  
Description: Address object name.

## nat\_policy.ipv6.source.group:

Type: string  
Flags: key  
Description: Group address object name.

## nat\_policy.ipv6.translated\_source:

Type: object  
Flags: key  
Description: Specify the translated source for the NAT policy.

## **nat\_policy.ipv6.translated\_source.original:**

Type: boolean (true)  
Flags: key  
Description: Original source IP.

## **nat\_policy.ipv6.translated\_source.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv6.translated\_source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv6.destination:**

Type: object  
Flags: key  
Description: Specify the original destination for the NAT policy.

## **nat\_policy.ipv6.destination.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **nat\_policy.ipv6.destination.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv6.destination.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv6.translated\_destination:**

Type: object  
Flags: key  
Description: Specify the translated destination for the NAT policy.

## **nat\_policy.ipv6.translated\_destination.original:**

Type: boolean (true)  
Flags: key  
Description: Original destination IP.

## **nat\_policy.ipv6.translated\_destination.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.ipv6.translated\_destination.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.ipv6.service:**

Type: object  
Flags: key  
Description: Specify the original service for the NAT policy.

## **nat\_policy.ipv6.service.any:**

Type: boolean (true)  
Flags: key  
Description: Any service.

## **nat\_policy.ipv6.service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **nat\_policy.ipv6.service.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **nat\_policy.ipv6.translated\_service:**

Type: object  
Flags: key  
Description: Specify the translated service for the NAT policy.

## **nat\_policy.ipv6.translated\_service.original:**

Type: boolean (true)  
Flags: key  
Description: Original service.

## **nat\_policy.ipv6.translated\_service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **nat\_policy.ipv6.translated\_service.group:**

Type: string  
Flags: key

Description: Service object group name.

## nat\_policy.ipv6.uuid:

Type: string

Flags: key

Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## nat\_policy.ipv6.name:

Type: string

Flags: required

Description: Name.

## nat\_policy.ipv6.enable:

Type: boolean (true|false)

Flags: -none-

Description: Enable NAT policy.

## nat\_policy.ipv6.comment:

Type: string

Flags: -none-

Description: Policy comment.

## nat\_policy.ipv6.priority:

Type: object

Flags: -none-

Description: Set NAT policy priority.

## nat\_policy.ipv6.priority.auto:

Type: boolean (true)

Flags: -none-

Description: Set auto priority(priority = 0) for NAT policy.

## nat\_policy.ipv6.priority.manual:

Type: number (uint32)

Flags: -none-

Description: Integer in the form: D OR 0xHHHHHHHH

## nat\_policy.ipv6.reflexive:

Type: boolean (true|false)

Flags: -none-

Description: Configure a reflexive rule.

## nat\_policy.ipv6.virtual\_group:

Type: object

Flags: -none-

Description: Specify virtual group for the NAT policy.

## **nat\_policy.ipv6.virtual\_group.any:**

Type: boolean (true)  
Flags: -none-  
Description: Any virtual group.

## **nat\_policy.ipv6.virtual\_group.id:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## API: NAT Policies – NAT64

- [Endpoint](#) on page 117
- [Schema Structure](#) on page 117
  - [Object: NAT Policies – NAT64](#) on page 117
  - [Collection: NAT Policies – NAT64](#) on page 118
  - [Schema Attributes](#) on page 118

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/nat-policies/nat64</i> <b>Schema:</b> <i>collection#nat-policy-nat64-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/nat-policies/nat64</i> <b>Schema:</b> <i>collection#nat-policy-nat64-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: NAT Policies – NAT64](#) on page 117
- [Collection: NAT Policies – NAT64](#) on page 118
- [Schema Attributes](#) on page 118

### Object: NAT Policies – NAT64

```
{
  "nat_policy": {
    "nat64": {
      "inbound": "{string}",
      "outbound": "{string}",

      "source": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
      },

      "translated_source": {
```

```

        "original": {true},
        | "name": "{string}",
        | "group": "{string}"
    },
    "pref64": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },
    "translated_destination": {
        "embedded_ipv4_address": {true}
    },
    "service": {
        "icmp_udp_tcp": {true}
    },
    "translated_service": {
        "original": {true}
    },
    "uuid": "{string}",
    "name": "{string}",
    "enable": {boolean},
    "comment": "{string}"
}
}
}

```

## Collection: NAT Policies – NAT64

```

{
  "nat_policies": [
    object#nat-policy-nat64-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [nat\\_policy](#): on page 119
- [nat\\_policies](#): on page 119
- [nat\\_policy.nat64](#): on page 119
- [nat\\_policy.nat64.inbound](#): on page 119
- [nat\\_policy.nat64.outbound](#): on page 119
- [nat\\_policy.nat64.source](#): on page 120
- [nat\\_policy.nat64.source.any](#): on page 120
- [nat\\_policy.nat64.source.name](#): on page 120
- [nat\\_policy.nat64.source.group](#): on page 120
- [nat\\_policy.nat64.translated\\_source](#): on page 120

- `nat_policy.nat64.translated_source.original`: on page 120
- `nat_policy.nat64.translated_source.name`: on page 120
- `nat_policy.nat64.translated_source.group`: on page 120
- `nat_policy.nat64.pref64`: on page 120
- `nat_policy.nat64.pref64.any`: on page 121
- `nat_policy.nat64.pref64.name`: on page 121
- `nat_policy.nat64.pref64.group`: on page 121
- `nat_policy.nat64.translated_destination`: on page 121
- `nat_policy.nat64.translated_destination.embedded_ipv4_address`: on page 121
- `nat_policy.nat64.service`: on page 121
- `nat_policy.nat64.service.icmp_udp_tcp`: on page 121
- `nat_policy.nat64.service.icmp_udp_tcp`: on page 121
- `nat_policy.nat64.translated_service`: on page 121
- `nat_policy.nat64.translated_service.original`: on page 121
- `nat_policy.nat64.uuid`: on page 122
- `nat_policy.nat64.name`: on page 122
- `nat_policy.nat64.enable`: on page 122
- `nat_policy.nat64.comment`: on page 122

## **nat\_policy:**

Type: object  
 Flags: -none-  
 Description: NAT policy.

## **nat\_policies:**

Type: object  
 Flags: -none-  
 Description: NAT policy collection.

## **nat\_policy.nat64:**

Type: object  
 Flags: key  
 Description: NAT64 NAT policy.

## **nat\_policy.nat64.inbound:**

Type: string  
 Flags: key  
 Description: Interface name.

## **nat\_policy.nat64.outbound:**

Type: string  
 Flags: key  
 Description: Interface name.



## **nat\_policy.nat64.source:**

Type: object  
Flags: key  
Description: Specify the original source for the NAT64 policy.

## **nat\_policy.nat64.source.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **nat\_policy.nat64.source.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.nat64.source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.nat64.translated\_source:**

Type: object  
Flags: key  
Description: Specify the translated source for the NAT64 policy.

## **nat\_policy.nat64.translated\_source.original:**

Type: boolean (true)  
Flags: key  
Description: Original source IP.

## **nat\_policy.nat64.translated\_source.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.nat64.translated\_source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.nat64.pref64:**

Type: object  
Flags: key  
Description: Specify the prefix for the NAT64 policy.

## **nat\_policy.nat64.pref64.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **nat\_policy.nat64.pref64.name:**

Type: string  
Flags: key  
Description: Address object name.

## **nat\_policy.nat64.pref64.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **nat\_policy.nat64.translated\_destination:**

Type: object  
Flags: key  
Description: Specify the translated destination for the NAT policy.

## **nat\_policy.nat64.translated\_destination.embedded\_ipv4\_address:**

Type: boolean (true)  
Flags: key  
Description: Embedded ipv4 address.

## **nat\_policy.nat64.service:**

Type: object  
Flags: key  
Description: Specify the original service for the NAT policy.

## **nat\_policy.nat64.service.icmp\_udp\_tcp:**

Type: boolean (true)  
Flags: key  
Description: ICMP UDP TCP service.

## **nat\_policy.nat64.translated\_service:**

Type: object  
Flags: key  
Description: Specify the translated service for the NAT policy.

## **nat\_policy.nat64.translated\_service.original:**

Type: boolean (true)  
Flags: key  
Description: Original service.

## **nat\_policy.nat64.uuid:**

Type: string

Flags: key

Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## **nat\_policy.nat64.name:**

Type: string

Flags: required

Description: Name.

## **nat\_policy.nat64.enable:**

Type: boolean (true|false)

Flags: -none-

Description: Enable NAT policy.

## **nat\_policy.nat64.comment:**

Type: string

Flags: -none-

Description:

## API: Access Rules – IPv4

- [Endpoint](#) on page 123
- [Schema Structure](#) on page 123
  - [Object: Access Rules – IPv4](#) on page 123
  - [Collection: Access Rules – IPv4](#) on page 125
  - [Schema Attributes](#) on page 125

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/access-rules/ipv4</i> <b>Schema:</b> <i>collection#access-rule-ipv4-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/access-rules/ipv4/uuid/{UUID}</i> <b>Schema:</b> <i>collection#access-rule-ipv4-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Access Rules – IPv4](#) on page 123
- [Collection: Access Rules – IPv4](#) on page 125
- [Schema Attributes](#) on page 125

### Object: Access Rules – IPv4

```
{
  "access_rule": {
    "ipv4": {
      "from": "{string}",
      "to": "{string}",
      "action": "{string}",

      "source": {
        "address": {
          "any": {true},
          | "name": "{string}",
          | "group": "{string}"
        },
      },
    },
  },
}
```

```

    "port": {
      "any": {true},
      | "name": "{string}",
      | "group": "{string}"
    }
  },

  "service": {
    "any": {true},
    | "name": "{string}",
    | "group": "{string}"
  },

  "destination": {
    "address": {
      "any": {true},
      | "name": "{string}",
      | "group": "{string}"
    }
  },

  "schedule": {
    "always_on": {true},
    | "name": "{string}"
  },

  "users": {
    "included": {
      "all": {true},
      | "guests": {true},
      | "administrator": {true},
      | "name": "{string}",
      | "group": "{string}"
    },

    "excluded": {
      "none": {true},
      | "guests": {true},
      | "administrator": {true},
      | "name": "{string}",
      | "group": "{string}"
    }
  },

  "uuid": "{string}",
  "name": "{string}",
  "comment": "{string}",
  "enable": {boolean},
  "reflexive": {boolean},
  "max_connections": {number},
  "logging": {boolean},
  "management": {boolean},
  "packet_monitoring": {boolean},

  "priority": {
    "auto": {true},
    | "manual": {number}
  },

  "tcp": {
    "timeout": {number}
  },

  "udp": {
    "timeout": {number}
  },

```



- [access\\_rule.ipv4.source.address.any](#): on page 128
- [access\\_rule.ipv4.source.address.name](#): on page 128
- [access\\_rule.ipv4.source.address.group](#): on page 129
- [access\\_rule.ipv4.source.port](#): on page 129
- [access\\_rule.ipv4.source.port.any](#): on page 129
- [access\\_rule.ipv4.source.port.name](#): on page 129
- [access\\_rule.ipv4.source.port.group](#): on page 129
- [access\\_rule.ipv4.service](#): on page 129
- [access\\_rule.ipv4.service.any](#): on page 129
- [access\\_rule.ipv4.service.name](#): on page 129
- [access\\_rule.ipv4.service.group](#): on page 129
- [access\\_rule.ipv4.destination](#): on page 130
- [access\\_rule.ipv4.destination.address](#): on page 130
- [access\\_rule.ipv4.destination.address.any](#): on page 130
- [access\\_rule.ipv4.destination.address.name](#): on page 130
- [access\\_rule.ipv4.destination.address.group](#): on page 130
- [access\\_rule.ipv4.schedule](#): on page 130
- [access\\_rule.ipv4.schedule.always\\_on](#): on page 130
- [access\\_rule.ipv4.schedule.name](#): on page 130
- [access\\_rule.ipv4.users](#): on page 130
- [access\\_rule.ipv4.users.included](#): on page 131
- [access\\_rule.ipv4.users.included.all](#): on page 131
- [access\\_rule.ipv4.users.included.guests](#): on page 131
- [access\\_rule.ipv4.users.included.administrator](#): on page 131
- [access\\_rule.ipv4.users.included.name](#): on page 131
- [access\\_rule.ipv4.users.included.group](#): on page 131
- [access\\_rule.ipv4.users.excluded](#): on page 131
- [access\\_rule.ipv4.users.excluded.none](#): on page 131
- [access\\_rule.ipv4.users.excluded.guests](#): on page 131
- [access\\_rule.ipv4.users.excluded.administrator](#): on page 132
- [access\\_rule.ipv4.users.excluded.name](#): on page 132
- [access\\_rule.ipv4.users.excluded.group](#): on page 132
- [access\\_rule.ipv4.uuid](#): on page 132
- [access\\_rule.ipv4.name](#): on page 132
- [access\\_rule.ipv4.name](#): on page 132
- [access\\_rule.ipv4.comment](#): on page 132
- [access\\_rule.ipv4.enable](#): on page 132

- [access\\_rule.ipv4.reflexive](#): on page 132
- [access\\_rule.ipv4.max\\_connections](#): on page 132
- [access\\_rule.ipv4.logging](#): on page 133
- [access\\_rule.ipv4.management](#): on page 133
- [access\\_rule.ipv4.packet\\_monitoring](#): on page 133
- [access\\_rule.ipv4.priority](#): on page 133
- [access\\_rule.ipv4.priority.auto](#): on page 133
- [access\\_rule.ipv4.priority.manual](#): on page 133
- [access\\_rule.ipv4.tcp](#): on page 133
- [access\\_rule.ipv4.tcp.timeout](#): on page 133
- [access\\_rule.ipv4.udp](#): on page 133
- [access\\_rule.ipv4.udp.timeout](#): on page 134
- [access\\_rule.ipv4.fragments](#): on page 134
- [access\\_rule.ipv4.botnet\\_filter](#): on page 134
- [access\\_rule.ipv4.connection\\_limit](#): on page 134
- [access\\_rule.ipv4.connection\\_limit.destination](#): on page 134
- [access\\_rule.ipv4.connection\\_limit.destination.threshold](#): on page 134
- [access\\_rule.ipv4.connection\\_limit.source](#): on page 134
- [access\\_rule.ipv4.connection\\_limit.source.threshold](#): on page 134
- [access\\_rule.ipv4.flow\\_reporting](#): on page 134
- [access\\_rule.ipv4.geo\\_ip\\_filter](#): on page 135
- [access\\_rule.ipv4.single\\_sign\\_on](#): on page 135
- [access\\_rule.ipv4.single\\_sign\\_on](#): on page 135
- [access\\_rule.ipv4.cos\\_override](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service.class\\_of\\_service](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service.class\\_of\\_service.explicit](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service.class\\_of\\_service.map](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service.class\\_of\\_service.preserve](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service.dscp](#): on page 135
- [access\\_rule.ipv4.quality\\_of\\_service.dscp.explicit](#): on page 136
- [access\\_rule.ipv4.quality\\_of\\_service.dscp.map](#): on page 136
- [access\\_rule.ipv4.quality\\_of\\_service.dscp.preserve](#): on page 136

## access\_rule:

Type: object  
 Flags: -none-  
 Description: Access rule.



## **access\_rules:**

Type: array  
Flags: -none-  
Description: Access rule collection.

## **access\_rule.ipv4:**

Type: object  
Flags: -none-  
Description: IPv4 access rule.

## **access\_rule.ipv4.from:**

Type: string  
Flags: key  
Description: Zone object name.

## **access\_rule.ipv4.to:**

Type: string  
Flags: key  
Description: Zone object name.

## **access\_rule.ipv4.action:**

Type: string  
Flags: key  
Description: Set the action for this access rule.

## **access\_rule.ipv4.source:**

Type: object  
Flags: key  
Description: Source.

## **access\_rule.ipv4.source.address:**

Type: object  
Flags: key  
Description: Source address.

## **access\_rule.ipv4.source.address.any:**

Type: boolean (true)  
Flags: key  
Description: Any address.

## **access\_rule.ipv4.source.address.name:**

Type: string  
Flags: key  
Description: Address object name.

## **access\_rule.ipv4.source.address.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **access\_rule.ipv4.source.port:**

Type: object  
Flags: key  
Description: Specify a source port for this Access Policy.

## **access\_rule.ipv4.source.port.any:**

Type: boolean (true)  
Flags: key  
Description: Any source service.

## **access\_rule.ipv4.source.port.name:**

Type: string  
Flags: key  
Description: Service object name.

## **access\_rule.ipv4.source.port.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **access\_rule.ipv4.service:**

Type: object  
Flags: key  
Description: Specify a destination service for this Access Policy.

## **access\_rule.ipv4.service.any:**

Type: boolean (true)  
Flags: key  
Description: Any destination service.

## **access\_rule.ipv4.service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **access\_rule.ipv4.service.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **access\_rule.ipv4.destination:**

Type: object  
Flags: key  
Description: Destination.

## **access\_rule.ipv4.destination.address:**

Type: object  
Flags: key  
Description: Destination a destination address for this Access Policy.

## **access\_rule.ipv4.destination.address.any:**

Type: boolean (true)  
Flags: key  
Description: Any address.

## **access\_rule.ipv4.destination.address.name:**

Type: string  
Flags: key  
Description: Address object name.

## **access\_rule.ipv4.destination.address.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **access\_rule.ipv4.schedule:**

Type: object  
Flags: key  
Description: Specify a schedule for this access policy.

## **access\_rule.ipv4.schedule.always\_on:**

Type: boolean (true)  
Flags: key  
Description: Always on.

## **access\_rule.ipv4.schedule.name:**

Type: string  
Flags: key  
Description: Schedule object name.

## **access\_rule.ipv4.users:**

Type: object  
Flags: key  
Description: Specify users that are excluded from this access policy.

## **access\_rule.ipv4.users.included:**

Type: object  
Flags: key  
Description: Specify included users.

## **access\_rule.ipv4.users.included.all:**

Type: boolean (true)  
Flags: key  
Description: All users.

## **access\_rule.ipv4.users.included.guests:**

Type: boolean (true)  
Flags: key  
Description: Guest users.

## **access\_rule.ipv4.users.included.administrator:**

Type: boolean (true)  
Flags: key  
Description: Administrator.

## **access\_rule.ipv4.users.included.name:**

Type: string  
Flags: key  
Description: Local user object name.

## **access\_rule.ipv4.users.included.group:**

Type: string  
Flags: key  
Description: Local user group object name.

## **access\_rule.ipv4.users.excluded:**

Type: object  
Flags: key  
Description: Specify excluded users.

## **access\_rule.ipv4.users.excluded.none:**

Type: boolean (true)  
Flags: key  
Description: No users.

## **access\_rule.ipv4.users.excluded.guests:**

Type: boolean (true)  
Flags: key  
Description: Guest users.

## **access\_rule.ipv4.users.excluded.administrator:**

Type: boolean (true)  
Flags: key  
Description: Administrator.

## **access\_rule.ipv4.users.excluded.name:**

Type: string  
Flags: key  
Description: Local user object name.

## **access\_rule.ipv4.users.excluded.group:**

Type: string  
Flags: key  
Description: Local user group object name.

## **access\_rule.ipv4.uuid:**

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## **access\_rule.ipv4.name:**

Type: string  
Flags: required  
Description: Name.

## **access\_rule.ipv4.comment:**

Type: string  
Flags: -none-  
Description:

## **access\_rule.ipv4.enable:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable this access rule.

## **access\_rule.ipv4.reflexive:**

Type: boolean (true|false)  
Flags: -none-  
Description: Configure a reflexive rule.

## **access\_rule.ipv4.max\_connections:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## access\_rule.ipv4.logging:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable logging when this access rule is used.

## access\_rule.ipv4.management:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow management traffic.

## access\_rule.ipv4.packet\_monitoring:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable packet monitoring.

## access\_rule.ipv4.priority:

Type: object  
Flags: -none-  
Description: Set access rule priority

## access\_rule.ipv4.priority.auto:

Type: boolean (true)  
Flags: -none-  
Description: Set auto priority(priority = 0) for access rule.

## access\_rule.ipv4.priority.manual:

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHHH

## access\_rule.ipv4.tcp:

Type: object  
Flags: -none-  
Description: TCP.

## access\_rule.ipv4.tcp.timeout:

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHHH

## access\_rule.ipv4.udp:

Type: object  
Flags: -none-  
Description: UDP.

## access\_rule.ipv4.udp.timeout:

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHHH

## access\_rule.ipv4.fragments:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow fragmented packets on this access rule.

## access\_rule.ipv4.botnet\_filter:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Botnet filter.

## access\_rule.ipv4.connection\_limit:

Type: object  
Flags: -none-  
Description: Configure connection limit.

## access\_rule.ipv4.connection\_limit.destination:

Type: object  
Flags: -none-  
Description: Enable connection limit for each destination IP address. Set to null or {} if disabled/unconfigured.

## access\_rule.ipv4.connection\_limit.destination.threshold:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## access\_rule.ipv4.connection\_limit.source:

Type: object  
Flags: -none-  
Description: Enable connection limit for each source IP address. Set to null or {} if disabled/unconfigured.

## access\_rule.ipv4.connection\_limit.source.threshold:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## access\_rule.ipv4.flow\_reporting:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable flow reporting.

## **access\_rule.ipv4.geo\_ip\_filter:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Geo-IP filter.

## **access\_rule.ipv4.single\_sign\_on:**

Type: boolean (true|false)  
Flags: -none-  
Description: Invoke single sign on to authenticate users.

## **access\_rule.ipv4.cos\_override:**

Type: boolean (true|false)  
Flags: -none-  
Description: Allow 802.1p marking to override DSCP values.

## **access\_rule.ipv4.quality\_of\_service:**

Type: object  
Flags: -none-  
Description: Configure quality of service for rule.

## **access\_rule.ipv4.quality\_of\_service.class\_of\_service:**

Type: object  
Flags: -none-  
Description: Set 802.1p marking action. Set to null or {} if disabled/unconfigured.

## **access\_rule.ipv4.quality\_of\_service.class\_of\_service.explicit:**

Type: string  
Flags: -none-  
Description: Set explicit marking.

## **access\_rule.ipv4.quality\_of\_service.class\_of\_service.map:**

Type: boolean (true)  
Flags: -none-  
Description: Map marking.

## **access\_rule.ipv4.quality\_of\_service.class\_of\_service.preserve:**

Type: boolean (true)  
Flags: -none-  
Description: Preserve marking.

## **access\_rule.ipv4.quality\_of\_service.dscp:**

Type: object  
Flags: -none-  
Description: Set DSCP marking action.



## **access\_rule.ipv4.quality\_of\_service.dscp.explicit:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **access\_rule.ipv4.quality\_of\_service.dscp.map:**

Type: boolean (true)  
Flags: -none-  
Description: Map marking.

## **access\_rule.ipv4.quality\_of\_service.dscp.preserve:**

Type: boolean (true)  
Flags: -none-  
Description: Preserve marking.

## API: Access Rules – IPv6

- [Endpoint](#) on page 137
- [Schema Structure](#) on page 137
  - [Object: Access Rules – IPv6](#) on page 137
  - [Collection: Access Rules – IPv6](#) on page 139
  - [Schema Attributes](#) on page 139

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/access-rules/ipv6</i> <b>Schema:</b> <i>collection#access-rule-ipv6-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/access-rules/ipv6/uuid/{UUID}</i> <b>Schema:</b> <i>collection#access-rule-ipv6-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Access Rules – IPv6](#) on page 137
- [Collection: Access Rules – IPv6](#) on page 139
- [Schema Attributes](#) on page 139

### Object: Access Rules – IPv6

```
{
  "access_rule": {
    "ipv6": {
      "from": "{string}",
      "to": "{string}",
      "action": "{string}",

      "source": {
        "address": {
          "any": {true},
          | "name": "{string}",
          | "group": "{string}"
        },
      },
    },
  },
}
```

```

    "port": {
      "any": {true},
      | "name": "{string}",
      | "group": "{string}"
    }
  },

  "service": {
    "any": {true},
    | "name": "{string}",
    | "group": "{string}"
  },

  "destination": {
    "address": {
      "any": {true},
      | "name": "{string}",
      | "group": "{string}"
    }
  },

  "schedule": {
    "always_on": {true},
    | "name": "{string}"
  },

  "users": {
    "included": {
      "all": {true},
      | "guests": {true},
      | "administrator": {true},
      | "name": "{string}",
      | "group": "{string}"
    },

    "excluded": {
      "none": {true},
      | "guests": {true},
      | "administrator": {true},
      | "name": "{string}",
      | "group": "{string}"
    }
  },

  "uuid": "{string}",
  "name": "{string}",
  "comment": "{string}",
  "enable": {boolean},
  "reflexive": {boolean},
  "max_connections": {number},
  "logging": {boolean},
  "management": {boolean},
  "packet_monitoring": {boolean},

  "priority": {
    "auto": {true},
    | "manual": {number}
  },

  "tcp": {
    "timeout": {number}
  },

  "udp": {
    "timeout": {number}
  },

```

```

    "fragments": {boolean},
    "botnet_filter": {boolean},

    "connection_limit": {
      "destination": {
        "threshold": {number}
      },

      "source": {
        "threshold": {number}
      }
    },

    "flow_reporting": {boolean},
    "geo_ip_filter": {boolean},
    "single_sign_on": {boolean},
    "cos_override": {boolean},

    "quality_of_service": {
      "class_of_service": {
        "explicit": "{string}",
        | "map": {true},
        | "preserve": {true}
      },

      "dscp": {
        "explicit": {number},
        | "map": {true},
        | "preserve": {true}
      }
    }
  }
}

```

## Collection: Access Rules – IPv6

```

{
  "access_rules": [
    object#access_rule-ipv6-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [access\\_rule](#): on page 141
- [access\\_rules](#): on page 142
- [access\\_rule.ipv6](#): on page 142
- [access\\_rule.ipv6.from](#): on page 142
- [access\\_rule.ipv6.to](#): on page 142
- [access\\_rule.ipv6.action](#): on page 142
- [access\\_rule.ipv6.source](#): on page 142
- [access\\_rule.ipv6.source.address](#): on page 142

- [access\\_rule.ipv6.source.address.any](#): on page 142
- [access\\_rule.ipv6.source.address.name](#): on page 142
- [access\\_rule.ipv6.source.address.group](#): on page 143
- [access\\_rule.ipv6.source.port](#): on page 143
- [access\\_rule.ipv6.source.port.any](#): on page 143
- [access\\_rule.ipv6.source.port.name](#): on page 143
- [access\\_rule.ipv6.source.port.group](#): on page 143
- [access\\_rule.ipv6.service](#): on page 143
- [access\\_rule.ipv6.service.any](#): on page 143
- [access\\_rule.ipv6.service.name](#): on page 143
- [access\\_rule.ipv6.destination](#): on page 143
- [access\\_rule.ipv6.destination.address](#): on page 144
- [access\\_rule.ipv6.destination.address.any](#): on page 144
- [access\\_rule.ipv6.destination.address.name](#): on page 144
- [access\\_rule.ipv6.destination.address.group](#): on page 144
- [access\\_rule.ipv6.schedule](#): on page 144
- [access\\_rule.ipv6.schedule.always\\_on](#): on page 144
- [access\\_rule.ipv6.schedule.name](#): on page 144
- [access\\_rule.ipv6.users](#): on page 144
- [access\\_rule.ipv6.users.included](#): on page 144
- [access\\_rule.ipv4.users.included.all](#): on page 145
- [access\\_rule.ipv6.users.included.guests](#): on page 145
- [access\\_rule.ipv6.users.included.administrator](#): on page 145
- [access\\_rule.ipv6.users.included.name](#): on page 145
- [access\\_rule.ipv6.users.included.group](#): on page 145
- [access\\_rule.ipv6.users.excluded](#): on page 145
- [access\\_rule.ipv6.users.excluded.none](#): on page 145
- [access\\_rule.ipv6.users.excluded.guests](#): on page 145
- [access\\_rule.ipv6.users.excluded.administrator](#): on page 145
- [access\\_rule.ipv6.users.excluded.name](#): on page 146
- [access\\_rule.ipv6.users.excluded.group](#): on page 146
- [access\\_rule.ipv6.uuid](#): on page 146
- [access\\_rule.ipv6.name](#): on page 146
- [access\\_rule.ipv6.comment](#): on page 146
- [access\\_rule.ipv6.enable](#): on page 146
- [access\\_rule.ipv6.reflexive](#): on page 146
- [access\\_rule.ipv6.reflexive](#): on page 146

- [access\\_rule.ipv6.max\\_connections](#): on page 146
- [access\\_rule.ipv6.logging](#): on page 146
- [access\\_rule.ipv6.management](#): on page 147
- [access\\_rule.ipv6.packet\\_monitoring](#): on page 147
- [access\\_rule.ipv6.priority](#): on page 147
- [access\\_rule.ipv6.priority.auto](#): on page 147
- [access\\_rule.ipv6.priority.manual](#): on page 147
- [access\\_rule.ipv6.tcp](#): on page 147
- [access\\_rule.ipv6.tcp.timeout](#): on page 147
- [access\\_rule.ipv6.udp](#): on page 147
- [access\\_rule.ipv6.udp.timeout](#): on page 147
- [access\\_rule.ipv6.fragments](#): on page 148
- [access\\_rule.ipv6.botnet\\_filter](#): on page 148
- [access\\_rule.ipv6.connection\\_limit](#): on page 148
- [access\\_rule.ipv6.connection\\_limit.destination](#): on page 148
- [access\\_rule.ipv6.connection\\_limit.destination.threshold](#): on page 148
- [access\\_rule.ipv6.connection\\_limit.source](#): on page 148
- [access\\_rule.ipv6.connection\\_limit.source.threshold](#): on page 148
- [access\\_rule.ipv6.flow\\_reporting](#): on page 148
- [access\\_rule.ipv6.geo\\_ip\\_filter](#): on page 148
- [access\\_rule.ipv6.single\\_sign\\_on](#): on page 149
- [access\\_rule.ipv6.cos\\_override](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.class\\_of\\_service](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.class\\_of\\_service.explicit](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.class\\_of\\_service.map](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.class\\_of\\_service.preserve](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.dscp](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.dscp.explicit](#): on page 149
- [access\\_rule.ipv6.quality\\_of\\_service.dscp.map](#): on page 150
- [access\\_rule.ipv6.quality\\_of\\_service.dscp.preserve](#): on page 150

## access\_rule:

Type: object  
 Flags: -none-  
 Description: Access rule.

## **access\_rules:**

Type: array  
Flags: -none-  
Description: Access rule collection.

## **access\_rule.ipv6:**

Type: object  
Flags: -none-  
Description: IPv6 access rule.

## **access\_rule.ipv6.from:**

Type: string  
Flags: key  
Description: Zone object name.

## **access\_rule.ipv6.to:**

Type: string  
Flags: key  
Description: Zone object name.

## **access\_rule.ipv6.action:**

Type: string  
Flags: key  
Description: Set the action for this access rule.

## **access\_rule.ipv6.source:**

Type: object  
Flags: key  
Description: Source.

## **access\_rule.ipv6.source.address:**

Type: object  
Flags: key  
Description: Source address.

## **access\_rule.ipv6.source.address.any:**

Type: boolean (true)  
Flags: key  
Description: Any address.

## **access\_rule.ipv6.source.address.name:**

Type: string  
Flags: key  
Description: Address object name.

## **access\_rule.ipv6.source.address.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **access\_rule.ipv6.source.port:**

Type: object  
Flags: key  
Description: Specify a source port for this Access Policy.

## **access\_rule.ipv6.source.port.any:**

Type: boolean (true)  
Flags: key  
Description: Any source service.

## **access\_rule.ipv6.source.port.name:**

Type: string  
Flags: key  
Description: Service object name.

## **access\_rule.ipv6.source.port.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **access\_rule.ipv6.service:**

Type: object  
Flags: key  
Description: Specify a destination service for this Access Policy.

## **access\_rule.ipv6.service.any:**

Type: boolean (true)  
Flags: key  
Description: Any destination service.

## **access\_rule.ipv6.service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **access\_rule.ipv6.service.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **access\_rule.ipv6.destination:**

Type: object  
Flags: key  
Description: Destination.



## **access\_rule.ipv6.destination.address:**

Type: object  
Flags: key  
Description: Destination a destination address for this Access Policy.

## **access\_rule.ipv6.destination.address.any:**

Type: boolean (true)  
Flags: key  
Description: Any address.

## **access\_rule.ipv6.destination.address.name:**

Type: string  
Flags: key  
Description: Address object name.

## **access\_rule.ipv6.destination.address.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **access\_rule.ipv6.schedule:**

Type: object  
Flags: key  
Description: Specify a schedule for this access policy.

## **access\_rule.ipv6.schedule.always\_on:**

Type: boolean (true)  
Flags: key  
Description: Always on.

## **access\_rule.ipv6.schedule.name:**

Type: string  
Flags: key  
Description: Schedule object name.

## **access\_rule.ipv6.users:**

Type: object  
Flags: key  
Description: Specify users that are excluded from this access policy.

## **access\_rule.ipv6.users.included:**

Type: object  
Flags: key  
Description: Specify included users.

## **access\_rule.ipv4.users.included.all:**

Type: boolean (true)  
Flags: key  
Description: All users.

## **access\_rule.ipv6.users.included.guests:**

Type: boolean (true)  
Flags: key  
Description: Guest users.

## **access\_rule.ipv6.users.included.administrator:**

Type: boolean (true)  
Flags: key  
Description: Administrator.

## **access\_rule.ipv6.users.included.name:**

Type: string  
Flags: key  
Description: Local user object name.

## **access\_rule.ipv6.users.included.group:**

Type: string  
Flags: key  
Description: Local user group object name.

## **access\_rule.ipv6.users.excluded:**

Type: object  
Flags: key  
Description: Specify excluded users.

## **access\_rule.ipv6.users.excluded.none:**

Type: boolean (true)  
Flags: key  
Description: No users.

## **access\_rule.ipv6.users.excluded.guests:**

Type: boolean (true)  
Flags: key  
Description: Guest users.

## **access\_rule.ipv6.users.excluded.administrator:**

Type: boolean (true)  
Flags: key  
Description: Administrator.

## **access\_rule.ipv6.users.excluded.name:**

Type: string  
Flags: key  
Description: Local user object name.

## **access\_rule.ipv6.users.excluded.group:**

Type: string  
Flags: key  
Description: Local user group object name.

## **access\_rule.ipv6.uuid:**

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## **access\_rule.ipv6.name:**

Type: string  
Flags: required  
Description: Name.

## **access\_rule.ipv6.comment:**

Type: string  
Flags: -none-  
Description:

## **access\_rule.ipv6.enable:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable this access rule.

## **access\_rule.ipv6.reflexive:**

Type: boolean (true|false)  
Flags: -none-  
Description: Configure a reflexive rule.

## **access\_rule.ipv6.max\_connections:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **access\_rule.ipv6.logging:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable logging when this access rule is used.

## **access\_rule.ipv6.management:**

Type: boolean (true|false)  
Flags: -none-  
Description: Allow management traffic.

## **access\_rule.ipv6.packet\_monitoring:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable packet monitoring.

## **access\_rule.ipv6.priority:**

Type: object  
Flags: -none-  
Description: Set access rule priority

## **access\_rule.ipv6.priority.auto:**

Type: boolean (true)  
Flags: -none-  
Description: Set auto priority(priority = 0) for access rule.

## **access\_rule.ipv6.priority.manual:**

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHHH

## **access\_rule.ipv6.tcp:**

Type: object  
Flags: -none-  
Description: TCP.

## **access\_rule.ipv6.tcp.timeout:**

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHHH

## **access\_rule.ipv6.udp:**

Type: object  
Flags: -none-  
Description: UDP.

## **access\_rule.ipv6.udp.timeout:**

Type: number (uint32)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHHHHHHH

## access\_rule.ipv6.fragments:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow fragmented packets on this access rule.

## access\_rule.ipv6.botnet\_filter:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Botnet filter.

## access\_rule.ipv6.connection\_limit:

Type: object  
Flags: -none-  
Description: Configure connection limit.

## access\_rule.ipv6.connection\_limit.destination:

Type: object  
Flags: -none-  
Description: Enable connection limit for each destination IP address. Set to null or {} if disabled/unconfigured.

## access\_rule.ipv6.connection\_limit.destination.threshold:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## access\_rule.ipv6.connection\_limit.source:

Type: object  
Flags: -none-  
Description: Enable connection limit for each source IP address. Set to null or {} if disabled/unconfigured.

## access\_rule.ipv6.connection\_limit.source.threshold:

Type: number (uint16)  
Flags: -none-  
Description: Integer in the form: D OR 0xHHHH

## access\_rule.ipv6.flow\_reporting:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable flow reporting.

## access\_rule.ipv6.geo\_ip\_filter:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable Geo-IP filter.

## **access\_rule.ipv6.single\_sign\_on:**

Type: boolean (true|false)  
Flags: -none-  
Description: Invoke single sign on to authenticate users.

## **access\_rule.ipv6.cos\_override:**

Type: boolean (true|false)  
Flags: -none-  
Description: Allow 802.1p marking to override DSCP values.

## **access\_rule.ipv6.quality\_of\_service:**

Type: object  
Flags: -none-  
Description: Configure quality of service for rule.

## **access\_rule.ipv6.quality\_of\_service.class\_of\_service:**

Type: object  
Flags: -none-  
Description: Set 802.1p marking action. Set to null or {} if disabled/unconfigured.

## **access\_rule.ipv6.quality\_of\_service.class\_of\_service.explicit:**

Type: string  
Flags: -none-  
Description: Set explicit marking.

## **access\_rule.ipv6.quality\_of\_service.class\_of\_service.map:**

Type: boolean (true)  
Flags: -none-  
Description: Map marking.

## **access\_rule.ipv6.quality\_of\_service.class\_of\_service.preserve:**

Type: boolean (true)  
Flags: -none-  
Description: Preserve marking.

## **access\_rule.ipv6.quality\_of\_service.dscp:**

Type: object  
Flags: -none-  
Description: Set DSCP marking action.

## **access\_rule.ipv6.quality\_of\_service.dscp.explicit:**

Type: number (uint8)  
Flags: -none-  
Description: Integer in the form: D OR 0xHH

## **access\_rule.ipv6.quality\_of\_service.dscp.map:**

Type: boolean (true)  
Flags: -none-  
Description: Map marking.

## **access\_rule.ipv6.quality\_of\_service.dscp.preserve:**

Type: boolean (true)  
Flags: -none-  
Description: Preserve marking.

## API: Route Policies – IPv4

- [Endpoint](#) on page 151
- [Schema Structure](#) on page 151
  - [Object: Route Policies – IPv4](#) on page 151
  - [Collection: Route Policies – IPv4](#) on page 152
  - [Schema Attributes](#) on page 152

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/route-policies/ipv4</i> <b>Schema:</b> <i>collection#route-policy-ipv4-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/route-policies/ipv4/uuid/{UUID}</i> <b>Schema:</b> <i>collection#route-policy-ipv4-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Route Policies – IPv4](#) on page 151
- [Collection: Route Policies – IPv4](#) on page 152
- [Schema Attributes](#) on page 152

### Object: Route Policies – IPv4

```
{
  "route_policy": {
    "ipv4": {
      "interface": "{string}",
      "metric": {number},

      "source": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
      },

      "destination": {
```



```

        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "service": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "gateway": {
        "default": {true},
        | "name": "{string}",
        | "host": "{string}"
    },

    "uuid": "{string}",
    "name": "{string}",
    "disable_on_interface_down": {boolean},
    "vpn_precedence": {boolean},
    "auto_add_access_rules": {boolean},
    "probe": "{string}",
    "disable_when_probes_succeed": {boolean},
    "default_probe_state_up": {boolean},
    "comment": "{string}",
    "tcp_acceleration": {boolean},
    "wxa_group": "{string}"
    }
}
}
}
}

```

## Collection: Route Policies – IPv4

```

{
  "route_policies": [
    object#route-policy-ipv4-config,
    ...
  ]
}

```

## Schema Attributes

### Topics:

- [route\\_policy](#): on page 153
- [route\\_policies](#): on page 153
- [route\\_policy.ipv4](#): on page 153
- [route\\_policy.ipv4.interface](#): on page 154
- [route\\_policy.ipv4.metric](#): on page 154
- [route\\_policy.ipv4.source](#): on page 154
- [route\\_policy.ipv4.source.any](#): on page 154
- [route\\_policy.ipv4.source.name](#): on page 154
- [route\\_policy.ipv4.source.group](#): on page 154
- [route\\_policy.ipv4.destination](#): on page 154

- [route\\_policy.ipv4.destination.any](#): on page 154
- [route\\_policy.ipv4.destination.name](#): on page 154
- [route\\_policy.ipv4.destination.group](#): on page 155
- [route\\_policy.ipv4.service](#): on page 155
- [route\\_policy.ipv4.service.any](#): on page 155
- [route\\_policy.ipv4.service.name](#): on page 155
- [route\\_policy.ipv4.service.group](#): on page 155
- [route\\_policy.ipv4.service](#): on page 155
- [route\\_policy.ipv4.service.any](#): on page 155
- [route\\_policy.ipv4.service.name](#): on page 155
- [route\\_policy.ipv4.service.group](#): on page 155
- [route\\_policy.ipv4.gateway](#): on page 155
- [route\\_policy.ipv4.gateway.default](#): on page 155
- [route\\_policy.ipv4.gateway.name](#): on page 155
- [route\\_policy.ipv4.gateway.host](#): on page 155
- [route\\_policy.ipv4.uuid](#): on page 156
- [route\\_policy.ipv4.name](#): on page 156
- [route\\_policy.ipv4.disable\\_on\\_interface\\_down](#): on page 156
- [route\\_policy.ipv4.vpn\\_precedence](#): on page 156
- [route\\_policy.ipv4.auto\\_add\\_access\\_rules](#): on page 156
- [route\\_policy.ipv4.probe](#): on page 156
- [route\\_policy.ipv4.disable\\_when\\_probes\\_succeed](#): on page 156
- [route\\_policy.ipv4.default\\_probe\\_state\\_up](#): on page 156
- [route\\_policy.ipv4.comment](#): on page 156
- [route\\_policy.ipv4.tcp\\_acceleration](#): on page 157
- [route\\_policy.ipv4.wxa\\_group](#): on page 157

## route\_policy:

Type: object  
 Flags: -none-  
 Description: Route policy.

## route\_policies:

Type: array  
 Flags: -none-  
 Description: Route policy collection.

## route\_policy.ipv4:

Type: object  
 Flags: -none-  
 Description: IPv4 route policy.

## **route\_policy.ipv4.interface:**

Type: string  
Flags: key  
Description: Route interface name.

## **route\_policy.ipv4.metric:**

Type: number (uint8)  
Flags: key  
Description: Integer in the form: D OR 0xHH

## **route\_policy.ipv4.source:**

Type: object  
Flags: key  
Description: Set route policy source.

## **route\_policy.ipv4.source.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **route\_policy.ipv4.source.name:**

Type: string  
Flags: key  
Description: Host/network/range address object name.

## **route\_policy.ipv4.source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **route\_policy.ipv4.destination:**

Type: object  
Flags: key  
Description: Set route policy destination.

## **route\_policy.ipv4.destination.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **route\_policy.ipv4.destination.name:**

Type: string  
Flags: key  
Description: FQDN/host/network/range address object name.

## **route\_policy.ipv4.destination.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **route\_policy.ipv4.service:**

Type: object  
Flags: key  
Description: Set route policy service.

## **route\_policy.ipv4.service.any:**

Type: boolean (true)  
Flags: key  
Description: Any service.

## **route\_policy.ipv4.service.name:**

Type: string  
Flags: key  
Description: Service object name.

## **route\_policy.ipv4.service.group:**

Type: string  
Flags: key  
Description: Service object group name.

## **route\_policy.ipv4.gateway:**

Type: object  
Flags: key  
Description: Set route policy gateway.

## **route\_policy.ipv4.gateway.default:**

Type: boolean (true)  
Flags: key  
Description: Default gateway 0.0.0.0

## **route\_policy.ipv4.gateway.name:**

Type: string  
Flags: key  
Description: Host address object name.

## **route\_policy.ipv4.gateway.host:**

Type: string (ip)  
Flags: key  
Description: IPv4 host address in the form: D.D.D.D

## route\_policy.ipv4.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## route\_policy.ipv4.name:

Type: string  
Flags: required  
Description: Name.

## route\_policy.ipv4.disable\_on\_interface\_down:

Type: boolean (true|false)  
Flags: -none-  
Description: Disable route when the interface is disconnected.

## route\_policy.ipv4.vpn\_precedence:

Type: boolean (true|false)  
Flags: -none-  
Description: Allow VPN path to take precedence.

## route\_policy.ipv4.auto\_add\_access\_rules:

Type: boolean (true|false)  
Flags: -none-  
Description: Enable auto-add access rules.

## route\_policy.ipv4.probe:

Type: string  
Flags: -none-  
Description: Atom Object name.

## route\_policy.ipv4.disable\_when\_probes\_succeed:

Type: boolean (true|false)  
Flags: -none-  
Description: Disable route when probe succeeds.

## route\_policy.ipv4.default\_probe\_state\_up:

Type: boolean (true|false)  
Flags: -none-  
Description: Set probe default state to up.

## route\_policy.ipv4.comment:

Type: string  
Flags: -none-  
Description:

## **route\_policy.ipv4.tcp\_acceleration:**

Type: boolean (true|false)

Flags: -none-

Description: Enable permit TCP acceleration.

## **route\_policy.ipv4.wxa\_group:**

Type: string

Flags: -none-

Description: WXA group name.

## API: Route Policies – IPv6

- [Endpoint](#) on page 158
- [Schema Structure](#) on page 158
  - [Object: Route Policies – IPv6](#) on page 158
  - [Collection: Route Policies – IPv6](#) on page 159
  - [Schema Attributes](#) on page 159

### Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
<b>URI:</b> <i>/api/sonicos/route-policies/ipv6</i> <b>Schema:</b> <i>collection#route-policy-ipv6-config</i>	Empty	Required	Required	Required
<b>URI:</b> <i>/api/sonicos/route-policies/ipv6/uuid/{UUID}</i> <b>Schema:</b> <i>collection#route-policy-ipv6-config</i>	Empty	—	Required	Ignored

### Schema Structure

#### Topics:

- [Object: Route Policies – IPv6](#) on page 158
- [Collection: Route Policies – IPv6](#) on page 159
- [Schema Attributes](#) on page 159

### Object: Route Policies – IPv6

```
{
  "route_policy": {
    "ipv6": {
      "interface": "{string}",
      "metric": {number},

      "source": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
      },

      "destination": {
```

```

        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "service": {
        "any": {true},
        | "name": "{string}",
        | "group": "{string}"
    },

    "gateway": {
        "default": {true},
        | "name": "{string}",
        | "host": "{string}"
    },

    "uuid": "{string}",
    "name": "{string}",
    "disable_on_interface_down": {boolean},
    "vpn_precedence": {boolean},
    "auto_add_access_rules": {boolean},
    "probe": "{string}",
    "disable_when_probes_succeed": {boolean},
    "default_probe_state_up": {boolean},
    "comment": "{string}"
}
}
}
}

```

## Collection: Route Policies – IPv6

```

{
    "route_policies": [
        object#route-policy-ipv6-config,
        ...
    ]
}

```

## Schema Attributes

### Topics:

- [route\\_policy](#): on page 160
- [route\\_policies](#): on page 160
- [route\\_policy.ipv6](#): on page 160
- [route\\_policy.ipv6.interface](#): on page 160
- [route\\_policy.ipv6.metric](#): on page 160
- [route\\_policy.ipv6.source](#): on page 161
- [route\\_policy.ipv6.source.any](#): on page 161
- [route\\_policy.ipv6.destination.name](#): on page 161
- [route\\_policy.ipv6.destination.group](#): on page 161
- [route\\_policy.ipv6.service](#): on page 161



- `route_policy.ipv6.service.any`: on page 162
- `route_policy.ipv6.service.name`: on page 162
- `route_policy.ipv6.service.group`: on page 162
- `route_policy.ipv6.gateway`: on page 162
- `route_policy.ipv6.gateway.default`: on page 162
- `route_policy.ipv6.gateway.name`: on page 162
- `route_policy.ipv6.gateway.host`: on page 162
- `route_policy.ipv6.uuid`: on page 162
- `route_policy.ipv6.name`: on page 162
- `route_policy.ipv6.disable_on_interface_down`: on page 163
- `route_policy.ipv6.vpn_precedence`: on page 163
- `route_policy.ipv6.auto_add_access_rules`: on page 163
- `route_policy.ipv6.probe`: on page 163
- `route_policy.ipv6.disable_when_probes_succeed`: on page 163
- `route_policy.ipv6.default_probe_state_up`: on page 163

## route\_policy:

Type: object  
 Flags: -none-  
 Description: Route policy.

## route\_policies:

Type: array  
 Flags: -none-  
 Description: Route policy collection.

## route\_policy.ipv6:

Type: object  
 Flags: key  
 Description: IPv6 route policy.

## route\_policy.ipv6.interface:

Type: string  
 Flags: key  
 Description: Route interface name.

## route\_policy.ipv6.metric:

Type: number (uint8)  
 Flags: key  
 Description: Integer in the form: D OR 0xHH

## **route\_policy.ipv6.source:**

Type: object  
Flags: key  
Description: Set route policy source.

## **route\_policy.ipv6.source.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **route\_policy.ipv6.source.name:**

Type: string  
Flags: key  
Description: Host/network/range address object name.

## **route\_policy.ipv6.source.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **route\_policy.ipv6.destination:**

Type: object  
Flags: key  
Description: Set route policy destination.

## **route\_policy.ipv6.destination.any:**

Type: boolean (true)  
Flags: key  
Description: Any host.

## **route\_policy.ipv6.destination.name:**

Type: string  
Flags: key  
Description: FQDN/host/network/range address object name.

## **route\_policy.ipv6.destination.group:**

Type: string  
Flags: key  
Description: Group address object name.

## **route\_policy.ipv6.service:**

Type: object  
Flags: key  
Description: Set route policy service.

## route\_policy.ipv6.service.any:

Type: boolean (true)  
Flags: key  
Description: Any service.

## route\_policy.ipv6.service.name:

Type: string  
Flags: key  
Description: Service object name.

## route\_policy.ipv6.service.group:

Type: string  
Flags: key  
Description: Service object group name.

## route\_policy.ipv6.gateway:

Type: object  
Flags: key  
Description: Set route policy gateway.

## route\_policy.ipv6.gateway.default:

Type: boolean (true)  
Flags: key  
Description: Default gateway 0.0.0.0/::

## route\_policy.ipv6.gateway.name:

Type: string  
Flags: key  
Description: Host address object name.

## route\_policy.ipv6.gateway.host:

Type: string (ip)  
Flags: key  
Description: IPv4 host address in the form: D.D.D.D IPv6 host address in the form:  
HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH:HHHH.

## route\_policy.ipv6.uuid:

Type: string  
Flags: key  
Description: UUID in the form: HHHHHHHH-HHHH-HHHH-HHHH-HHHHHHHHHHHH

## route\_policy.ipv6.name:

Type: string  
Flags: required  
Description: Name.

## **route\_policy.ipv6.disable\_on\_interface\_down:**

Type: boolean (true|false)  
Flags: -none-  
Description: Disable route when the interface is disconnected.

## **route\_policy.ipv6.vpn\_precedence:**

Type: boolean (true|false)  
Flags: -none-  
Description: Allow VPN path to take precedence.

## **route\_policy.ipv6.auto\_add\_access\_rules:**

Type: boolean (true|false)  
Flags: -none-  
Description: Enable auto-add access rules.

## **route\_policy.ipv6.probe:**

Type: string  
Flags: -none-  
Description: Atom Object name.

## **route\_policy.ipv6.disable\_when\_probes\_succeed:**

Type: boolean (true|false)  
Flags: -none-  
Description: Disable route when probe succeeds.

## **route\_policy.ipv6.default\_probe\_state\_up:**

Type: boolean (true|false)  
Flags: -none-  
Description: Set probe default state to up.

## **route\_policy.ipv6.comment:**

Type: string  
Flags: -none-  
Description:

## SonicWall Support

Technical support is available to customers who have purchased SonicWall products with a valid maintenance contract and to customers who have trial versions.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. To access the Support Portal, go to <https://www.sonicwall.com/support>.

The Support Portal enables you to:

- View knowledge base articles and technical documentation
- View video tutorials
- Access MySonicWall
- Learn about SonicWall professional services
- Review SonicWall Support services and warranty information
- Register for training and certification
- Request technical support or customer service

To contact SonicWall Support, visit <https://www.sonicwall.com/support/contact-support>.

# About This Document

## Legend



**WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.



**CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.



**IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

SonicOS Reference  
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Software Version - 6.5.1  
232-004282-00 Rev A

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