

SonicWall® SonicOS API 6.5.1

Reference



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About SonicOS API

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

Content-type	Specifies the format (MIME type) of the request body (input).
Accept	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. NOTE: 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">• 0 = top-level mode• >= 1 config mode
status.cli.mode	string	Name of the current mode.
status.cli.command	string	Command last executed. NOTE: 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">• NONE• APPLIANCE• CHASSIS• CHASSIS_SHUTDOWN• ALL_BLADES
<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 GUI 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}"
}
```

id: Type: string (hexadecimal number)

Description: CHAP ID

Example: 0b

challenge: 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. Please see 'auth.js' in the SonicOS Web UI code for a working reference on how to calculate the digest.

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

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

override: Type: boolean
 Description: Boolean flag that if true will allow the API session to override an admin currently logged in.
 Default: false
 Example: true

id: Type: string (hexadecimal number)
 Description: CHAP ID.
 Example: 0b

user: Type: string
 Description: Username.
 Example: admin

digest: 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
URI: <code>/api/sonicos/config/pending</code>	Empty	Empty	—	Empty
Schema: 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
- [Examples](#) on page 18

About Modifying Configuration API

All SonicOS APIs that modify configuration (POST, PUT, DELETE) do not take effect immediately. Rather, configuration is staged and will not be 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 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 will be 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 will return any/all pending (unsaved) configuration so please 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
- [GET Pending Changes](#) on page 19
- [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"
    }
  ]
}
```

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
- [Example](#) on page 20

About Restarting API

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

Endpoint

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

Endpoint

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

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: IPv4 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 25
- [Schema Structure](#) on page 25

Endpoint

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

Schema Structure

Topics:

- [Object: Address Object](#) on page 25
- [Collection: Address Objects](#) on page 26
- [Schema Attributes](#) on page 26

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

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: IPv6 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 28
- [Schema Structure](#) on page 28

Endpoint

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

Schema Structure

Topics:

- [Object: Address Object](#) on page 28
- [Collection: Address Object](#) on page 29
- [Schema Attributes](#) on page 29

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

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 31
- [Schema Structure](#) on page 31

Endpoint

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

Schema Structure

Topics:

- [Object: Address Object](#) on page 31
- [Collection: Address Object](#) on page 32
- [Schema Attributes](#) on page 32

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

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 34
- [Schema Structure](#) on page 34

Endpoint

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

Schema Structure

Topics:

- [Object: Address Group](#) on page 34
- [Collection: Address Group](#) on page 35
- [Schema Attributes](#) on page 35

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

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 38
- [Schema Structure](#) on page 38

Endpoint

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

Schema Structure

Topics:

- [Object: Address Group](#) on page 38
- [Collection: Address Group](#) on page 39
- [Schema Attributes](#) on page 39

Object: Address Group

```
{
  "ipv6": {
    "name": "{string}",
    "uuid": "{string}",
    "address_group": {
      "ipv4": [
        {
          "name": "{string}"
        },
        ...
      ],
      "ipv6": [
```


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 42
- [Schema Structure](#) on page 42

Endpoint

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

Schema Structure

Topics:

- [Object: Schedule](#) on page 42
- [Collection: Schedule](#) on page 43
- [Schema Attributes](#) on page 43

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

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 hhmm)
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 48
- [Schema Structure](#) on page 48

Endpoint

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

Schema Structure

Topics:

- [Object: Service Object](#) on page 48
- [Collection: Service Object](#) on page 49
- [Schema Attributes](#) on page 49

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

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 52
- [Schema Structure](#) on page 52

Endpoint

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

Schema Structure

Topics:

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

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

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 55
- [Schema Structure](#) on page 55

Endpoint

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

Schema Structure

Topics:

- [Object: Zone](#) on page 55
- [Collection: Zone](#) on page 57
- [Schema Attributes](#) on page 57

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

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 73
- [Schema Structure](#) on page 73

Endpoint

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

Schema Structure

Topics:

- [Object: DNS](#) on page 73
- [Schema Attributes](#) on page 74

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

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.

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.

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 77
- [Schema Structure](#) on page 77Z

Endpoint

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

Schema Structure

Topics:

- [Object: Interface – IPv4](#) on page 77
- [Collection: Interface – IPv4](#) on page 79
- [Schema Attributes](#) on page 79

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}",
            }
          }
        }
      }
    }
  }
}
```


Collection: Interface – IPv4

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

Schema Attributes

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 86
- [Schema Structure](#) on page 86

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/nat-policies/ipv4</code> Schema: <code>collection#nat-policies-ipv4-config</code>	Empty	Required	Required	Required
URI: <code>/api/sonicos/nat-policies/ipv4</code> Schema: <code>collection#nat-policies-ipv4-config</code>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: NAT Policies – IPv4](#) on page 86
- [Collection: NAT Policies – IPv4](#) on page 88
- [Schema Attributes](#) on page 88

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}"
      },
    },
  },
}
```


Collection: NAT Policies – IPv4

```
{
  "nat_policies": [
    object#nat-policy-ipv4-config,
    ...
  ]
}
```

Schema Attributes

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 94
- [Schema Structure](#) on page 94

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/nat-policies/ipv6</code> Schema: <code>collection#nat-policies-ipv6-config</code>	Empty	Required	Required	Required
URI: <code>/api/sonicos/nat-policies/ipv6</code> Schema: <code>collection#nat-policies-ipv6-config</code>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: NAT Policies – IPv6](#) on page 94
- [Schema Attributes](#) on page 95

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},
```


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 100
- [Schema Structure](#) on page 100

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/nat-policies/nat64</code> Schema: <code>collection#nat-policy-nat64-config</code>	Empty	Required	Required	Required
URI: <code>/api/sonicos/nat-policies/nat64</code> Schema: <code>collection#nat-policy-nat64-config</code>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: NAT Policies – NAT64](#) on page 100
- [Collection: NAT Policies – NAT64](#) on page 101
- [Schema Attributes](#) on page 101

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

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 105
- [Schema Structure](#) on page 105

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/access-rules/ipv4</code> Schema: <code>collection#access-rule-ipv4-config</code>	Empty	Required	Required	Required
URI: <code>/api/sonicos/access-rules/ipv4/uuid/{UUID}</code> Schema: <code>collection#access-rule-ipv4-config</code>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: Access Rules – IPv4](#) on page 105
- [Collection: Access Rules – IPv4](#) on page 107
- [Schema Attributes](#) on page 107

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}
  },
  "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 – IPv4

```

{
    "access_rules": [
        object#access_rule-ipv4-config,
        ...
    ]
}

```

Schema Attributes

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 116
- [Schema Structure](#) on page 116

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/access-rules/ipv6</code> Schema: <code>collection#access-rule-ipv6-config</code>	Empty	Required	Required	Required
URI: <code>/api/sonicos/access-rules/ipv6/uuid/{UUID}</code> Schema: <code>collection#access-rule-ipv6-config</code>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: Access Rules – IPv6](#) on page 116
- [Collection: Access Rules – IPv6](#) on page 118
- [Schema Attributes](#) on page 118

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": {

```


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 127
- [Schema Structure](#) on page 127

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <i>/api/sonicos/route-policies/ipv4</i> Schema: <i>collection#route-policy-ipv4-config</i>	Empty	Required	Required	Required
URI: <i>/api/sonicos/route-policies/ipv4/uuid/{UUID}</i> Schema: <i>collection#route-policy-ipv4-config</i>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: Route Policies – IPv4](#) on page 127
- [Collection: Route Policies – IPv4](#) on page 128
- [Schema Attributes](#) on page 128

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

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 132
- [Schema Structure](#) on page 132

Endpoint

Endpoint	HTTP method and body			
	GET	POST	PUT	DELETE
URI: <code>/api/sonicos/route-policies/ipv6</code> Schema: <code>collection#route-policy-ipv6-config</code>	Empty	Required	Required	Required
URI: <code>/api/sonicos/route-policies/ipv6/uuid/{UUID}</code> Schema: <code>collection#route-policy-ipv6-config</code>	Empty	—	Required	Ignored

Schema Structure

Topics:

- [Object: Route Policies – IPv6](#) on page 132
- [Collection: Route Policies – IPv6](#) on page 133
- [Schema Attributes](#) on page 133

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

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

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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>.

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- Learn about SonicWall professional services
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Legend



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SonicOS Reference
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232-001810-00 Rev A

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