

Appendix E – API Guide (Server)

SIAAS API (SERVER) GUIDE

How to read this guide:

- **<method>** is a method for the route
- **<key>** is an optional parameter accepted under the current method
- () describes the body of a method, or the value of a parameter key
- [] is the list of possible returns for a method
- # is a description of the method/parameter

Base URL: <https://<SIAAS Server IP>>

Template: <https://<SIAAS Server IP>/<API Route>?key1=value1&key2=value2>

List of API Routes:

/api

- GET [200] # shows API information

/api/siaas-server

- GET [200, 500] # shows the contents of the local server DBs
- module (string: platform, config, *; default: *) # filters specific modules (accepts a comma-separated list)

/api/siaas-server/configs

- GET [200, 500] # shows the published configurations for the server
- POST [200, 500] (header: Content-Type: application/json; body: JSON dict of configs) # posts a dictionary of configurations for the server
- DELETE [200, 500] # deletes all server configurations

/api/siaas-server/agents

- GET [200, 500] # shows a summary of known agents (nickname, description, IP, last ping) (nickname and description strings for each agent are read from the published configuration keys "nickname" and "description", for each agent's uid)
- sort (string: date, agent; default: date) # sorts the agents by last ping or uid

/api/siaas-server/agents/data

```

- GET [200, 500] # shows the data uploaded by all agents
-- module (string: platform, config, *; default: *) # filters specific modules (accepts a comma-separated list)

/api/siaas-server/agents/data/<siaas_agent_uid>
- GET [200, 500] # shows the data uploaded by a specific agent uid (accepts multiple uids, comma-separated)
-- module (string: platform, neighborhood, portscanner, config, *; default: *) # filters specific modules (accepts a comma-separated list)
- POST [200, 500] (header: Content-Type: application/json; body: JSON dict of agent-module data) # posts a dictionary of agent data from an agent's uid
- DELETE [200, 500] # deletes agent data from the server's DB from an agent's uid (accepts multiple uids, comma-separated)
-- days (int: 0-99999; default: 365) # number of days to keep

/api/siaas-server/agents/configs
- GET [200, 500] # shows the configurations published for all agents
-- merge_broadcast (int: 0, 1; default: 0) # merges the broadcasted configurations with the configuration of each agent's uid (broadcast address: ffffffff-ffff-ffff-ffff-ffffffffffffff)

/api/siaas-server/agents/configs/<agent_uid>
- GET [200, 500] # shows the configurations published for a specific agent uid (accepts multiple uids, comma-separated)
-- merge_broadcast (int: 0, 1; default: 0) # merges the broadcasted configuration in the configuration of each agent's uid
- POST [200, 500] (header: Content-Type: application/json) (body: JSON dict of configs) # posts a dictionary of configurations for an agent's uid (accepts multiple uids, comma-separated)
- DELETE [200, 500] # deletes published configurations for an agent's uid (accepts multiple uids, comma-separated)

/api/siaas-server/agents/history
- GET [200, 500] # shows historical data for all agents
-- days (int: 0-99999; default: 15) # maximum number of days to show
-- hide (int: 0, 1; default: 0) # empty keys till module-key level
-- limit (int: 0-99999; default: 100) # maximum number of records to show
-- module (string: platform, neighborhood, portscanner, config, *; default: *) filters specific modules (accepts a comma-separated list)
-- older (int: 0, 1; default: 0) # shows older records first
-- sort (string: date, agent; default: date) # sort by most recent or agent uid

/api/siaas-server/agents/history/<agent_uid>
- GET [200, 500] # shows historical data for a specific agent uid (accepts multiple uids, comma-separated)
-- days (int: 0-99999; default: 15) # maximum number of days to show
-- hide (int: 0, 1; default: 0) # empty keys till module-key level
-- limit (int: 0-99999; default: 100) # maximum number of records to show
-- module (string: platform, neighborhood, portscanner, config, *; default: *) filters specific modules (accepts a comma-separated list)
-- older (int: 0, 1; default: 0) # shows older records first

```

```
-- sort (string: date, agent; default: date) # sort by most recent or agent uid
```

cURL examples:

```
GET: curl -i -X GET https://192.168.1.100/api/siaas-server/agents/history?sort=agent\&hide=1\&days=5  
--user siaas:siaas --insecure
```

```
POST: curl -i -X POST https://192.168.1.100/api/siaas-server/agents/configs/10000000dbb5bbc1 -H  
"Content-Type: application/json" -d '{"disable_wifi_auto_discovery": "false","manual_hosts":  
"sapo.pt,google.pt"}' --user siaas:siaas --insecure
```

```
DELETE: curl -i -X DELETE https://192.168.1.100/api/siaas-server/agents/data/0924aa8b-6dc9-4fec-9716-  
d1601fc8b6c6?days=3 --user siaas:siaas --insecure
```

Technical Note E1 - SIAAS Server API guide

Full web guide for the API is available at: https://<SIAAS_Server_IP>/api/docs.

