

NUKI

BRIDGE API

v1.3

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Nuki Home Solutions GmbH

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Introduction

The REST API on the Nuki Bridge offers simple endpoints to list all available Nuki Smart Locks, retrieve their current lock state and perform lock operations.

When using the Nuki Software Bridge, all configuration is done inside the Nuki Bridge App instead of the Nuki App.

Calling URL

This is the address used to call the available services of the internal webserver.

The IP address is shown in the bridge settings within the Nuki App.

The server is listening for incoming requests either on default port 8080 or the configured one if it has been modified within the Nuki App.

Example

The following base url will be used in upcoming examples:

<http://192.168.1.50:8080/>

Lock states

Possible lock states (used in [Endpoints](#) below):

ID	Name
0	uncalibrated
1	locked
2	unlocking
3	unlocked
4	locking
5	unlatched
6	unlocked (lock 'n' go)
7	unlatching
254	motor blocked
255	undefined

Lock actions

Possible lock actions (used in [Endpoints](#) below):

ID	Name
1	unlock
2	lock
3	unlatch
4	lock 'n' go
5	lock 'n' go with unlatch

Endpoints

/list

URL	http://192.168.1.50:8080/list		
Usage	Returns a list of all paired Smart Locks		
URL-Parameters	token	The api token configured via the Nuki app when enabling the API	
Response	JSON array. One item of the following per Smart Lock		
	nukiId	ID of the Smart Lock	
	name	Name of the Smart Lock	
	lastKnownState	JSON list containing the last known lock state of the Smart Lock <i>not yet available on software bridge</i>	
		state	ID of the lock state (see Lock states)
		stateName	Name of the lock state (see Lock states)
batteryCritical		Flag indicating if the batteries of the Smart Lock are at critical level	

		timestamp	Timestamp of the retrieval of this lock state
Errors	HTTP 401	Returned if the given token is invalid	
Example-Call	http://192.168.1.50:8080/list?token=123456		
Example-Response	<pre>[{ "nukiId": 1, "name": "Home", "lastKnownState": { "state": 1, "stateName": "locked", "batteryCritical": false, "timestamp": "2016-10-03T06:49:00+00:00" } }, { "nukiId": 2, "name": "Grandma", "lastKnownState": { "state": 3, "stateName": "unlocked", "batteryCritical": false, "timestamp": "2016-10-03T06:49:00+00:00" } }]</pre>		

/lockState

URL	http://192.168.1.50:8080/lockState		
Usage	Retrieves and returns the current lock state of a given Smart Lock		
URL-Parameters	nukiId	The ID of the Smart Lock from which the lock state should be retrieved	
	token	The api token configured via the Nuki app when enabling the API	
Response	JSON list containing the retrieved lock state		
	state	ID of the lock state (see Lock states)	
	stateName	Name of the lock state (see Lock states)	
	batteryCritical	Flag indicating if the batteries of the Smart Lock	

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		are at critical level
	success	Flag indicating if the lock state retrieval has been successful
Errors	HTTP 401	Returned if the given token is invalid
	HTTP 404	Returned if the given Smart Lock is unknown
	HTTP 503	Returned if the given Smart Lock is offline
Example-Call	http://192.168.1.50:8080/lockState?nukiId=1&token=123456	
Example-Response	<pre>{ "state": 1, "stateName": "locked", "batteryCritical": false, "success": true }</pre>	

/lockAction

URL	http://192.168.1.50:8080/lockAction	
Usage	Performs a lock operation on the given Smart Lock	
URL-Parameters	nukiId	The ID of the Smart Lock which should execute the lock action
	action	The desired lock action (see Lock actions)
	noWait	Flag (0 or 1) indicating whether or not to wait for the lock action to complete and return its result <i>optional; defaults to 0</i> <i>not yet available on software bridge</i>
	token	The api token configured via the Nuki app when enabling the API
Response	JSON list containing the result of the lock action	
	batteryCritical	Flag indicating if the batteries of the Smart Lock are at critical level
	success	Flag indicating if the lock action has been executed successful

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Errors	HTTP 400	Returned if the given action is invalid
	HTTP 401	Returned if the given token is invalid
	HTTP 404	Returned if the given Smart Lock is unknown
	HTTP 503	Returned if the given Smart Lock is offline
Example-Call	http://192.168.1.50:8080/lockState?nukiId=1&action=1&token=123456	
Example-Response	<pre>{ "success": true, "batteryCritical": false }</pre>	

/info

URL	http://192.168.1.50:8080/info		
Usage	Returns all Smart Locks in range and some device information of the bridge itself		
URL-Parameters	token	The api token configured via the Nuki app when enabling the API	
Response	JSON list with the result		
	bridgeType	<ul style="list-style-type: none"> • 1 => Hardware bridge • 2 => Software bridge 	
	ids	JSON list containing the ids of the bridge	
		hardwareId	Hardware ID <i>hardware bridge only</i>
		serverId	Server ID
	versions	JSON list containing the versions of bridge	
		firmwareVersion	Version of the bridges firmware <i>hardware bridge only</i>
wifiFirmwareVersion		Version of the WiFi modules firmware	

			<i>hardware bridge only</i>
		appVersion	Version of the bridge app <i>software bridge only</i>
	uptime	Uptime of the bridge in seconds	
	currentTime	Current timestamp	
	serverConnected	Flag indicating whether or not the bridge is connected to the Nuki server	
	scanResults	JSON Array. One item of the following per Smart Lock	
		nukiId	Smart Lock ID
		name	BLE-Name of the Smart Lock
		rssi	RSSI value
		paired	Flag indicating whether or not a pairing with this Smart Lock has already been established
Errors	HTTP 401	Returned if the given token is invalid	
Example-Call	http://192.168.1.50:8080/info?token=123456		
Example-Response	<pre>{ "bridgeType": 1, "ids": {"hardwareId": 12345678, "serverId": 12345678}, "versions": { "firmwareVersion": "0.1.0", "wifiFirmwareVersion": "0.2.0" }, "uptime": 120, "currentTime": "2016-04-01T12:10:11Z", "serverConnected": true, "scanResults": [{ "nukiId": 10, "name": "Nuki_00000010", "rssi": -87, "paired": true }] }</pre>		

	<pre> },{ "nukiId": 11, "name": "Nuki_00000011", "rssi": -93, "paired": false }] } </pre>
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/callback

The following endpoints provides methods to register up to 3 url callbacks, which will be triggered once the lock state of one of the known Smart Locks changes.

The new lock state will be sent to the callback url by executing a POST request and posting a JSON list in the following format:

```
{"nukiId": 11, "state": 1, "stateName": "locked", "batteryCritical": false}
```

Callbacks are not yet available on the software bridge

/callback/add

URL	http://192.168.1.50:8080/callback/add	
Usage	Registers a new callback url	
URL-Parameters	url	The callback url to be added (url encoded, max. 256 chars)
	token	The api token configured via the Nuki app when enabling the API
Response	JSON list containing the result	
	success	Flag indicating if the url has been added successfully
	message	Contains the reason for the failure if success is false
Errors	HTTP 400	Returned if the given url is invalid or too long
	HTTP 401	Returned if the given token is invalid
Example-Call	http://192.168.1.50:8080/callback/add?url=http%3A%2F%2F192.168.0.20%3A8000%2Fnuki&token=123456	

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Example-Response	{“success”: true}
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/callback/list

URL	http://192.168.1.50:8080/callback/list		
Usage	Returns all registered url callbacks		
URL-Parameters	token	The api token configured via the Nuki app when enabling the API	
Response	JSON list with the result		
	callbacks	JSON array. One item of the following per callback	
		id	ID of the callback
		url	URL of the callback
Errors	HTTP 401	Returned if the given token is invalid	
Example-Call	http://192.168.1.50:8080/callback/list?token=123456		
Example-Response	<pre>{ "callbacks": [{ "id": 0, "url": "http://192.168.0.20:8000/nuki" },{ "id": 1, "url": "http://192.168.0.21/test" }] }</pre>		

/callback/remove

URL	http://192.168.1.50:8080/callback/remove
Usage	Removes a previously added callback

URL-Parameters	id	The id of the callback to be removed
	token	The api token configured via the Nuki app when enabling the API
Response	JSON list containing the result	
	success	Flag indicating if the url has been added successfully
	message	Contains the reason for the failure if success is false
Errors	HTTP 400	Returned if the given url is invalid or too long
	HTTP 401	Returned if the given token is invalid
Example-Call	http://192.168.1.50:8080/callback/remove?id=0&token=123456	
Example-Response	{"success": true}	

Maintenance endpoints

The following endpoints are available for maintenance purposes of the hardware bridge. Therefore they are not available on the software bridge.

/log

URL	http://192.168.1.50:8080/log	
Usage	Retrieves the log of the Bridge	
URL-Parameters	offset	Offset position where to start retrieving log entries <i>optional; defaults to 0</i>
	count	How many log entries to retrieve <i>optional; defaults to 100</i>
	token	The api token configured via the Nuki app when enabling the API
Response	JSON array. One item of the following per log entry	
	timestamp	Timestamp of the log entry

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	type	Type of the log entry
	<i>some more optional parameters</i>	
Errors	HTTP 401	Returned if the given token is invalid
Example-Call	http://192.168.1.50:8080/log?token=123456	
Example-Response	[{"timestamp": "2016-10-06T16:46:05+00:00", "type": "..."}, {"timestamp": "2016-10-06T16:46:05+00:00", "type": "..."}, ...]	

/clearlog

URL	http://192.168.1.50:8080/clearlog	
Usage	Clears the log of the Bridge	
URL-Parameters	token	The api token configured via the Nuki app when enabling the API
Response	No response	
Errors	HTTP 401	Returned if the given token is invalid
Example-Call	http://192.168.1.50:8080/clearlog?token=123456	
Example-Response	None	

/fwupdate

URL	http://192.168.1.50:8080/fwupdate	
Usage	Immediately checks for a new firmware update and installs it	
URL-Parameters	token	The api token configured via the Nuki app when enabling the API
Response	No response	

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Errors	HTTP 401	Returned if the given token is invalid
Example-Call	http://192.168.1.50:8080/fwupdate?token=123456	
Example-Response	None	

/reboot

URL	http://192.168.1.50:8080/reboot	
Usage	Reboots the bridge	
URL-Parameters	token	The api token configured via the Nuki app when enabling the API
Response	No response	
Errors	HTTP 401	Returned if the given token is invalid
Example-Call	http://192.168.1.50:8080/reboot?token=123456	
Example-Response	None	