

# Nuki Bridge API

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Nuki Home Solutions GmbH  
Münzgrabenstrasse 92/4, 8010 Graz

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# 1. Introduction

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

Check for the latest version of this document at our [Developer Plattform](#).

## 1.1 Abbreviations used

Abbr.	Long form	Description
cm	Continuous Mode	Nuki Opener Mode with Ring to Open continuously activated
Ing	Lock 'n' Go	Unlock and lock again automatically
rto	Ring to Open	Nuki Opener State in which ringing the bell activates the electric strike actuation

# 2. 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 or can be retrieved from the bridge discovery URL.

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.

## 2.1 Example

The following base url will be used in upcoming examples:

<http://192.168.1.50:8080/>

## 3. Bridge discovery & API activation

Calling the URL <https://api.nuki.io/discover/bridges> returns a JSON array with all bridges which have been connected to the Nuki Servers through the same IP address than the one calling the URL within the last 30 days. The array contains the local IP address, port, the ID of each bridge and the date of the last change of the entry in the JSON array.

### 3.1 Example

```
{
  "bridges": [
    {
      "bridgId":2117604523,"ip":"192.168.1.50","port":8080,"dateUpdated":"2017-06-14T06:53:44Z"
    }
  ],
  "errorCode":0
}
```

Once a bridge has been discovered on the LAN the API can be activated and the [API token](#) retrieved by calling the [/auth](#) command. The user has to confirm this request by pressing the button on the bridge. For more details see the description of the [/auth](#) command. Alternatively you can activate the API and set the token by managing the Bridge in the Nuki App.

If discovery is disabled via [/configAuth](#) or through the Nuki App, the IP is 0.0.0.0 and the port 0. In this case the [/auth](#) command fails with HTTP error 403.

### 3.2 Token

We offer two ways of verifying calls to endpoints with a token:

Method	Usage
Plain token	You can use the plain token for testing and in private, secured WIFIs or VLANs.
Hashed token	Use if you do not want to send the plain token within your API-calls.  <b>Note:</b> Only available for the hardware bridge for now.

### 3.2.1 Parameters

Name	Parameter	Values	Example
Plain token	token	uint8[20]	123456
Timestamp	ts	YYY-MM-DDTHH:MM:SSZ	2019-03-05T01:06:53Z
Random number	rn	uint16	4711
Hash	hash	sha256("ts,mr,token")	f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6

sha256("2019-03-05T01:06:53Z,4711,123456") =  
f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6

### 3.2.2 Example calls

**Plain token:**

http://192.168.1.50:8080/info?token=123456

**Hashed token:**

http://192.168.1.50:8080/info?ts=2019-03-05T01:06:53Z&rn=4711&hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6

A hashed token will only be valid with a sufficiently current timestamp and can not be reused, to prevent replay attacks. So making two calls with the exact same timestamp will only work with different random numbers.

To debug problems with non synchronous times you can check the current time on the bridge via [bridge discovery](#)

## 4 States and Actions

### 4.1 Device Types

Nuki device connected to the bridge.

0 ... smartlock (*Nuki Smart Lock*)

2 ... opener (*Nuki Opener*)

### 4.2 Modes

mode	smartlock	opener	Description
2	door mode	door mode	Operation mode after complete setup
3	-	continuous mode	Ring to Open permanently active

**Note:** Only modes 2 and 3 can appear in JSON elements, as the HTTP API is not available in the other modes.

### 4.3 Lock States

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

ID	smartlock	opener
0	uncalibrated	untrained
1	locked	online
2	unlocking	-

3	unlocked	rto active
4	locking	-
5	unlatched	open
6	unlocked (lock 'n' go)	-
7	unlatching	opening
253	-	boot run
254	motor blocked	-
255	undefined	undefined

## 4.4 Lock Actions

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

ID	smartlock	opener
1	unlock	activate rto
2	lock	deactivate rto
3	unlatch	electric strike actuation
4	lock 'n' go	activate continuous mode
5	lock 'n' go with unlatch	deactivate continuous mode



## 4.5 Simple Lock Actions

Possible outcome of a simple lock action (mapping handled in the firmware of the device):

action	smartlock / knob	smartlock / handle	opener
/lock	lock	lock	deactivate rto and cm
/unlock	unlatch	unlock	open

To use this features your Nuki devices need the following firmware version:

Nuki device	Firmware version
Bridge	1.14.0/2.5.0 (or higher)
Smart Lock 1.0	1.8.0 (or higher)
Smart Lock 2.0	2.4.3 (or higher)
Opener	1.3.0 (or higher)

## 4.6 Doorsensor States

Possible door sensor states (used in [Endpoints](#) below).

ID	name
1	deactivated
2	door closed
3	door opened
4	door state unknown
5	calibrating

## 5. Endpoints

### /auth

<b>URL</b>	<a href="http://192.168.1.50:8080/auth">http://192.168.1.50:8080/auth</a>	
<b>Usage</b>	<p>Enables the api (if not yet enabled) and returns the api token.</p> <p>If no api token has yet been set, a new (random) one is generated.</p> <p>When issuing this API-call the bridge turns on its LED for 30 seconds.</p> <p>The button of the bridge has to be pressed within this timeframe. Otherwise the bridge returns a negative success and no token.</p>	
<b>Response</b>	JSON list containing the success of the authorization	
	<b>token</b>	The api token
	<b>success</b>	Flag indicating the success of the authorization
<b>Errors</b>	<b>HTTP 403</b>	Returned if the authentication is disabled
<b>Example-Call</b>	<a href="http://192.168.1.50:8080/auth">http://192.168.1.50:8080/auth</a>	
<b>Example-Response</b>	<pre>{   "token": "token123",   "success": true }</pre>	

### /configAuth

<b>URL</b>	<a href="http://192.168.1.50:8080/configAuth">http://192.168.1.50:8080/configAuth</a>
<b>Usage</b>	Enables or disables the authorization via <a href="#">/auth</a> and the

	publication of the local IP and port to the discovery URL ( <a href="https://api.nuki.io/discover/bridges">https://api.nuki.io/discover/bridges</a> ).	
<b>URL-Parameters</b>	<b>enable</b>	Flag (0 or 1) indicating whether or not the authorization should be enabled
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the success of the operation	
	<b>success</b>	Flag indicating the success of the authorization
<b>Errors</b>	<b>HTTP 400</b>	Returned if the given value for <b>enable</b> is invalid (neither 0 nor 1)
	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/configAuth?enable=0&amp;token=123456">http://192.168.1.50:8080/configAuth?enable=0&amp;token=123456</a> <a href="http://192.168.1.50:8080/configAuth?enable=0&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/configAuth?enable=0&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	<pre>{   "success": true }</pre>	

/list

<b>URL</b>	<a href="http://192.168.1.50:8080/list">http://192.168.1.50:8080/list</a>	
<b>Usage</b>	Returns a list of all paired Nuki devices	
<b>URL-Parameters</b>	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON array. One item of the following per Nuki device	

	<b>nukild</b>	ID of the Nuki device	
	<b>deviceType</b>	Nuki device type <ul style="list-style-type: none"> <li>• 0 =&gt; smartlock (<i>Nuki Smart Lock</i>)</li> <li>• 2 =&gt; opener (<i>Nuki Opener</i>)</li> </ul>	
	<b>name</b>	Name of the Nuki device	
	<b>lastKnownState</b>	JSON list containing the last known lock state of the Nuki device	
		<b>mode</b>	ID of the lock mode (see <a href="#">Modes</a> )
		<b>state</b>	ID of the lock state (see <a href="#">Lock States</a> )
		<b>stateName</b>	Name of the lock state (see <a href="#">Lock States</a> )
		<b>batteryCritical</b>	Flag indicating if the batteries of the Nuki device are at critical level
		<b>keypadBatteryCritical</b>	Flag indicating if the batteries of the paired Nuki Keypad are at critical level
		<b>doorsensorState</b>	ID of the door sensor state
		<b>doorsensorState Name</b>	Name of the door sensor state
		<b>ringactionTimestamp</b>	timestamp of the last ring-action
		<b>ringactionState</b>	Flag indicating if a ring-action is currently occurring or not (reset after 30 seconds)
		<b>timestamp</b>	Timestamp of the retrieval of this lock state

<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/list?token=123456">http://192.168.1.50:8080/list?token=123456</a> <a href="http://192.168.1.50:8080/list?ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/list?ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	<pre>[{   "nukiId": 1,   "deviceType": 0,   "name": "Home",   "lastKnownState": {     "mode": 2,     "state": 1,     "stateName": "unlocked",     "batteryCritical": false,     "keypadBatteryCritical": false,     "doorsensorState": 2,     "doorsensorStateName": "door closed",     "timestamp": "2018-10-03T06:49:00+00:00" } },{   "nukiId": 2,   "deviceType": 2,   "name": "Community door",   "lastKnownState": {     "mode": 3,     "state": 3,     "stateName": "rto active",     "batteryCritical": false,     "ringactionTimestamp": 2020-04-27T16:13:00+00:00",     "ringactionState": false,     "timestamp": "2018-10-03T06:49:00+00:00"   } }]</pre>	

## /lockState

**Warning:** /lockstate gets the current state directly from the device and so should not be used for constant polling to avoid draining the batteries too fast. [/list](#) can be used to get regular updates on the state, as is it cached on the bridge.

<b>URL</b>	<a href="http://192.168.1.50:8080/lockState">http://192.168.1.50:8080/lockState</a>	
<b>Usage</b>	Retrieves and returns the current lock state of a given Nuki device	
<b>URL-Parameters</b>	<b>nukild</b>	The ID of the Nuki device from which the lock state should be retrieved
	<b>deviceType</b>	Nuki device type (see <a href="#">Device Types</a> ; defaults to 0)
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the retrieved lock state	
	<b>mode</b>	ID of the lock mode (see <a href="#">Modes</a> )
	<b>state</b>	ID of the lock state (see <a href="#">Lock States</a> )
	<b>stateName</b>	Name of the lock state (see <a href="#">Lock States</a> )
	<b>batteryCritical</b>	Flag indicating if the batteries of the Nuki device are at critical level
	<b>keypadBatteryCritical</b>	Flag indicating if the batteries of the paired Nuki Keypad are at critical level
	<b>doorsensorState</b>	ID of the door sensor state
	<b>doorsensorState Name</b>	Name of the door sensor state
	<b>ringactionTimestamp</b>	timestamp of the last ring-action

	<b>ringactionState</b>	Flag indicating if a ring-action is currently occurring or not (reset after 30 seconds)
	<b>success</b>	Flag indicating if the lock state retrieval has been successful
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
	<b>HTTP 404</b>	Returned if the given Nuki device is unknown
	<b>HTTP 503</b>	Returned if the given Nuki device is offline
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/lockState?nukild=1&amp;deviceType=0&amp;token=123456">http://192.168.1.50:8080/lockState?nukild=1&amp;deviceType=0&amp;token=123456</a> <a href="http://192.168.1.50:8080/lockState?nukild=1&amp;deviceType=&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/lockState?nukild=1&amp;deviceType=&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	<pre>{   "mode": 2,   "state": 1,   "stateName": "locked",   "batteryCritical": false,   "keypadBatteryCritical": false,   "ringactionTimestamp": 2020-04-27T16:13:00+00:00",   "ringactionState": false,   "doorsensorState": 2,   "doorsensorStateName": "door closed",   "success": true }</pre>	

## /lockAction

<b>URL</b>	<a href="http://192.168.1.50:8080/lockAction">http://192.168.1.50:8080/lockAction</a>
------------	---

<b>Usage</b>	Performs a lock action on the given Nuki device	
<b>URL-Parameters</b>	<b>nukild</b>	The ID of the Nuki device which should execute the lock action
	<b>deviceType</b>	Nuki device type (see <a href="#">Device Types</a> ; defaults to 0)
	<b>action</b>	The desired lock action (see <a href="#">Lock Actions</a> )
	<b>nowait</b>	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> )
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the result of the lock action	
	<b>batteryCritical</b>	Flag indicating if the batteries of the Nuki device are at critical level
	<b>success</b>	Flag indicating if the lock action has been executed successfully
<b>Errors</b>	<b>HTTP 400</b>	Returned if the given <b>action</b> is invalid
	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
	<b>HTTP 404</b>	Returned if the given SNuki device is unknown
	<b>HTTP 503</b>	Returned if the given Nuki device is offline
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/lockAction?nukild=1&amp;deviceType=0&amp;action=1&amp;token=123456">http://192.168.1.50:8080/lockAction?nukild=1&amp;deviceType=0&amp;action=1&amp;token=123456</a> <a href="http://192.168.1.50:8080/lockAction?nukild=1&amp;deviceType=0&amp;action=1&amp;ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/lockAction?nukild=1&amp;deviceType=0&amp;action=1&amp;ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	{	



	<pre> "success": true, "batteryCritical": false } </pre>
--	--

/lock

<b>URL</b>	<a href="http://192.168.1.50:8080/lock">http://192.168.1.50:8080/lock</a>	
<b>Usage</b>	Send the simple lock action "lock" to a given Nuki device	
<b>URL-Parameters</b>	<b>nukild</b>	The ID of the Nuki device which should execute the lock action
	<b>deviceType</b>	Nuki device type (see <a href="#">Device Types</a> ; defaults to 0)
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the result of the lock action	
	<b>batteryCritical</b>	Flag indicating if the batteries of the Nuki device are at critical level
	<b>success</b>	Flag indicating if the lock action has been executed successfully
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
	<b>HTTP 404</b>	Returned if the given Nuki device is unknown
	<b>HTTP 503</b>	Returned if the given Nuki device is offline
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/lock?nukild=1&amp;deviceType=0&amp;token=123456">http://192.168.1.50:8080/lock?nukild=1&amp;deviceType=0&amp;token=123456</a> <a href="http://192.168.1.50:8080/lock?nukild=11&amp;deviceType=0&amp;ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/lock?nukild=11&amp;deviceType=0&amp;ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	

<b>Example-Response</b>	<pre>{   "success": true,   "batteryCritical": false }</pre>
-------------------------	--

## /unlock

<b>URL</b>	<a href="http://192.168.1.50:8080/unlock">http://192.168.1.50:8080/unlock</a>	
<b>Usage</b>	Send the simple lock action "unlock" to a given Nuki device	
<b>URL-Parameters</b>	<b>nukild</b>	The ID of the Nuki device which should execute the lock action
	<b>deviceType</b>	Nuki device type (see <a href="#">Device Types</a> ; defaults to 0)
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the result of the unlock action	
	<b>batteryCritical</b>	Flag indicating if the batteries of the Nuki device are at critical level
	<b>success</b>	Flag indicating if the unlock action has been executed successfully
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
	<b>HTTP 404</b>	Returned if the given Nuki device is unknown
	<b>HTTP 503</b>	Returned if the given Nuki device is offline
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/unlock?nukild=1&amp;deviceType=0&amp;token=123456">http://192.168.1.50:8080/unlock?nukild=1&amp;deviceType=0&amp;token=123456</a> <a href="http://192.168.1.50:8080/unlock?nukild=11&amp;deviceType=0&amp;ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f">http://192.168.1.50:8080/unlock?nukild=11&amp;deviceType=0&amp;ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f</a>	

	<a href="#">8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>
<b>Example-Response</b>	<pre>{   "success": true,   "batteryCritical": false }</pre>

## /unpair

not available on software bridge

<b>URL</b>	<a href="http://192.168.1.50:8080/unpair">http://192.168.1.50:8080/unpair</a>	
<b>Usage</b>	Removes the pairing with a given Nuki device	
<b>URL-Parameters</b>	<b>nukild</b>	The ID of the Nuki device which should be unpaired
	<b>deviceType</b>	Nuki device type (see <a href="#">Device Types</a> ; defaults to 0)
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the result of the operation	
	<b>success</b>	Flag indicating if the lock action has been executed successfully
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
	<b>HTTP 404</b>	Returned if the given Nuki device is unknown
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/unpair?nukild=1&amp;token=123456">http://192.168.1.50:8080/unpair?nukild=1&amp;token=123456</a> <a href="http://192.168.1.50:8080/unpair?nukild=1&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/unpair?nukild=1&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	

<b>Example-Response</b>	<pre>{   "success": true }</pre>
-------------------------	----------------------------------

/info

URL	<a href="http://192.168.1.50:8080/info">http://192.168.1.50:8080/info</a>		
Usage	Returns all Nuki devices 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"><li>1 =&gt; Hardware bridge</li><li>2 =&gt; Software bridge</li></ul>	
	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 firmwarehardware bridge only
		appVersion	Version of the bridge appsoftware bridge only

	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 Nuki device	
		nukild	Nuki device ID
		deviceType	Nuki device type (see <a href="#">Device Types</a> )
		name	BLE-Name of the Nuki device
		rsi	RSSI value
	paired	Flag indicating whether or not a pairing with this  Nuki device has already been established	
Errors	HTTP 401	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.	
Example-Calls	<a href="http://192.168.1.50:8080/info?token=123456">http://192.168.1.50:8080/info?token=123456</a> <a href="http://192.168.1.50:8080/info?ts=2019-03-05T01:06:53Z&amp;nrr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/info?ts=2019-03-05T01:06:53Z&amp;nrr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>		
Example-Response	{ "bridgeType": 1, "ids": {"hardwareId": 12345678, "serverId": 12345678}, "versions": { "firmwareVersion": "0.1.0", "wifiFirmwareVersion": "0.2.0" },		

	<pre>"uptime": 120, "currentTime": "2018-04-01T12:10:11Z", "serverConnected": true, "scanResults": [ { "nukiId": 10, "type": 0,   "name": "Nuki_00000010", "rssi": -87,   "paired": true }, { "nukiId": 11,   "deviceType": 2, "name": "Nuki_00000011",   "rssi": -93, "paired": false } ] }</pre>
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## /callback

The following endpoints provide methods to register up to 3 http (no https) url callbacks, which will be triggered once the lock state of one of the known Nuki devices 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, "deviceType": 0, "mode": 2, "state": 1, "stateName": "locked", "batteryCritical": false, "keypadBatteryCritical": false}
```

Nuki device with door sensor capabilities:

```
{"nukiId": 11, "deviceType": 0, "mode": 2, "state": 1, "stateName": "locked", "batteryCritical": false, "doorsensorState": 2, "doorsensorStateName": "door closed"}
```

Opener (with ring action capabilities):

```
{"nukiId": 11, "deviceType": 2, "mode": 3, "state": 3, "stateName": "rto active", "batteryCritical": false, "ringactionTimestamp": "2020-04-27T16:13:00+00:00", "ringactionState": false}
```

## /callback/add

<b>URL</b>	<a href="http://192.168.1.50:8080/callback/add">http://192.168.1.50:8080/callback/add</a>	
<b>Usage</b>	Registers a new callback url	
<b>URL-Parameters</b>	<b>url</b>	The callback url to be added (no https, url encoded, max. 254 chars)
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the result	
	<b>success</b>	Flag indicating if the url has been added successfully
	<b>message</b>	Contains the reason for the failure if <b>success</b> is false

<b>Errors</b>	<b>HTTP 400</b>	Returned if the given <b>URL</b> is invalid or too long
	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/callback/add?url=http%3A%2F%2F192.168.0.20%3A8000%2Fnuki&amp;token=123456">http://192.168.1.50:8080/callback/add?url=http%3A%2F%2F192.168.0.20%3A8000%2Fnuki&amp;token=123456</a> <a href="http://192.168.1.50:8080/callback/add?url=http%3A%2F%2F192.168.0.20%3A8000%2Fnuki&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/callback/add?url=http%3A%2F%2F192.168.0.20%3A8000%2Fnuki&amp;ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	<pre>{   "success": true }</pre>	

/callback/list

URL	<a href="http://192.168.1.50:8080/callback/list">http://192.168.1.50:8080/callback/list</a>		
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 <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.	
Example-Calls	<a href="http://192.168.1.50:8080/callback/list?token=123456">http://192.168.1.50:8080/callback/list?token=123456</a> <a href="http://192.168.1.50:8080/callback/list?ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/callback/list?ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>		



<b>Example-Response</b>	<pre>{   "callbacks": [     {       "id": 0,       "url": "http://192.168.0.20:8000/nuki"     }, {       "id": 1,       "url": "http://192.168.0.21/test"     }   ] }</pre>
-------------------------	---

/callback/remove

<b>URL</b>	<a href="http://192.168.1.50:8080/callback/remove">http://192.168.1.50:8080/callback/remove</a>	
<b>Usage</b>	Removes a previously added callback	
<b>URL-Parameters</b>	<b>id</b>	The id of the callback to be removed
	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	JSON list containing the result	
	<b>success</b>	Flag indicating if the url has been added successfully
	<b>message</b>	Contains the reason for the failure if <b>success</b> is false
<b>Errors</b>	<b>HTTP 400</b>	Returned if the given <b>url</b> is invalid or too long
	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/callback/remove?id=0&amp;token=123456">http://192.168.1.50:8080/callback/remove?id=0&amp;token=123456</a> <a href="http://192.168.1.50:8080/callback/remove?id=0&amp;ts=2019-03-05">http://192.168.1.50:8080/callback/remove?id=0&amp;ts=2019-03-05</a>	

	<a href="#">T01:06:53Z&amp;mr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>
<b>Example-Response</b>	<pre>{   "success": true }</pre>

## 6. 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	<a href="http://192.168.1.50:8080/log">http://192.168.1.50:8080/log</a>	
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
	type	Type of the log entry
	some more optional parameters	
Errors	HTTP 401	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
Example-Calls	<a href="http://192.168.1.50:8080/log?token=123456">http://192.168.1.50:8080/log?token=123456</a> <a href="http://192.168.1.50:8080/log?ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/log?ts=2019-03-05T01:06:53Z&amp;rnr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
Example-Response	[ {"timestamp": "2018-10-06T16:46:05+00:00", "deviceType": "..."}, ]	

	<pre>{   "timestamp": "2018-10-06T16:46:05+00:00",   "deviceType": "...",   ... }</pre>
--	---

## /clearlog

<b>URL</b>	<a href="http://192.168.1.50:8080/clearlog">http://192.168.1.50:8080/clearlog</a>	
<b>Usage</b>	Clears the log of the bridge	
<b>URL-Parameters</b>	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	No response	
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/clearlog?token=123456">http://192.168.1.50:8080/clearlog?token=123456</a> <a href="http://192.168.1.50:8080/clearlog?ts=2019-03-05T01:06:53Z&amp;rn=r=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/clearlog?ts=2019-03-05T01:06:53Z&amp;rn=r=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	None	

## /fwupdate

<b>URL</b>	<a href="http://192.168.1.50:8080/fwupdate">http://192.168.1.50:8080/fwupdate</a>	
<b>Usage</b>	Immediately checks for a new firmware update and installs it	
<b>URL-Parameters</b>	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	No response	
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.

<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/fwupdate?token=123456">http://192.168.1.50:8080/fwupdate?token=123456</a> <a href="http://192.168.1.50:8080/fwupdate?ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/fwupdate?ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>
<b>Example-Response</b>	None

## /reboot

<b>URL</b>	<a href="http://192.168.1.50:8080/reboot">http://192.168.1.50:8080/reboot</a>	
<b>Usage</b>	Reboots the bridge	
<b>URL-Parameters</b>	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	No response	
<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/reboot?token=123456">http://192.168.1.50:8080/reboot?token=123456</a> <a href="http://192.168.1.50:8080/reboot?ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/reboot?ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	None	

## /factoryReset

<b>URL</b>	<a href="http://192.168.1.50:8080/factoryReset">http://192.168.1.50:8080/factoryReset</a>	
<b>Usage</b>	Performs a factory reset	
<b>URL-Parameters</b>	<b>token</b>	The api token configured via the Nuki app when enabling the API
<b>Response</b>	No response	

<b>Errors</b>	<b>HTTP 401</b>	Returned if the given <b>token</b> is invalid or a <b>hashed token</b> parameter is missing.
<b>Example-Calls</b>	<a href="http://192.168.1.50:8080/factoryReset?token=123456">http://192.168.1.50:8080/factoryReset?token=123456</a> <a href="http://192.168.1.50:8080/factoryReset?ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6">http://192.168.1.50:8080/factoryReset?ts=2019-03-05T01:06:53Z&amp;nr=4711&amp;hash=f52eb5ce382e356c4239f8fb4d0a87402bb95b7b3124f0762b806ad7d0d01cb6</a>	
<b>Example-Response</b>	None	

## 7. Changelog

### Changelog v 1.12

02.09.2020

- Updated [/lockState](#) to include the keypadBatteryCritical flag, ringactionState and ringactionTimestamp.
- Updated [/list](#) to include the keypadBatteryCritical flag, ringactionState and ringactionTimestamp.
- Expanded POST request example for a [/callback](#) with the keypadBattery flag, ringactionState and ringactionTimestamp.

### Changelog v 1.11

08.07.2020

- Introduced [Dorsensor States](#) for all supported devices.
- Updated [/lockState](#) to include doorsensorState and doorsensorStateName in the response.
- Updated [/list](#) to include doorsensorState and doorsensorStateName in the response.
- Added a POST request example for a device with door sensor capabilities to [/callback](#).

### Changelog v 1.10

07.01.2020

- Introduced [Simple lock actions](#) for all usecases where the logic should be handled by the device itself.
- Made wording for Nuki devices more general.

### Changelog v 1.9

06.05.2019

- Introduced **Device Types** and **Modes** to be able to distinguish between Smart Locks and Nuki Openers and their operating modes.
- Updated **Lock States** to reflect matching and new states for the Nuki Opener.
- Updated **Lock Actions** to reflect matching and new actions for the Nuki Opener and add deviceType parameter.
- Added Opener support to [/list](#) and [/info](#) endpoints.
- Expanded **Callbacks** to Nuki Openers and added **deviceType** and **mode**.
- Expanded **Callbacks** to Nuki Openers and added **deviceType** and **mode**.
- Added deviceType parameter to [/unpair](#).

## Changelog v 1.8

07.03.2019

- Introducing the hashed [token](#) as a more secure alternative to sending the plain token

## Changelog v 1.7

30.03.2018

- Small changes in bridge discovery information

## Changelog v 1.6

21.06.2017

- Added bridge discovery