



# How to **develop for Hue?**

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## 9. Resourcelinks API

Resourcelinks are a way to group resources in the bridge. Resourcelinks can be used to order, combine and delete resources in the bridge. Furthermore they are useful to visualize functionalities that make use of various resources in the bridge (for example: Routines).

### 9.1. Get all resourcelinks

URL	<code>/api/&lt;username&gt;/resourcelinks</code>
Method	<code>GET</code>
Version	1.12
Permission	Whitelist

#### 9.1.1. Description

Gets a list of all resourcelinks that are in the bridge.

#### 9.1.2. Response

Returns a list of all resourcelinks in the system.

If there are no resourcelinks in the system then the bridge will return an empty object, {}.

#### 9.1.3. Sample Response

```
{
  "1": {
    "name": "Sunrise",
```

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```

      "description": "Carla's wakeup experience",
      "class": 1,
      "owner": "78H56B12BAABCDEF",
      "links": ["/schedules/2", "/schedules/3",
                "/scenes/ABCD", "/scenes/EFGH", "/groups/8"]
    }
  "2": {
    "name": "Holiday mode",
    (...)
  }
}

```

## 9.2. Get Resourcelinks

URL	<code>/api/&lt;username&gt;/resourcelinks/&lt;id&gt;</code>
Method	<code>GET</code>
Version	1.12
Permission	Whitelist

### 9.2.1. Description

Returns a resourcelink object with id matching <id> or an error 3 if <id> is not available.

### 9.2.2. Sample Response

```

{
  "name": "Sunrise",
  "description": "Carla's wakeup experience",
  "type": "Link",
  "class": 1,
  "owner": "78H56B12BAABCDEF",
  "links": ["/schedules/2", "/schedules/3",
            "/scenes/ABCD", "/scences/EFGH", "/groups/8"]
}

```

## 9.3. Create Resourcelinks

URL	<code>/api/&lt;username&gt;/resourcelinks</code>
Method	<code>POST</code>
Version	1.12
Permission	Whitelist

### 9.3.1. Description

Creates a new resourcelink in the bridge and generates a unique identifier for this resourcelink.

### 9.3.2. Body

```
{
  "name": "Sunrise",
  "description": "Carla's wakeup experience",
  "type": "Link",
  "class": 1,
  "owner": "78H56B12BAABCDEF",
  "links": ["/schedules/2", "/schedules/3",
            "/scenes/ABCD", "/scenes/EFGH", "/groups/8"]
}
```

### 9.3.3. Sample Response

```
[{
  "success": {"id": "3"}
}]
```

### 9.3.4. Notes

The following attributes are used for resourcelinks:

name	string 1..32	Human readable name for this resourcelink
description	string 0..64	Human readable description of what this resourcelink does. If not specified it's set to "".
type	string	Not writeable and there is only 1 type: "Link"
classid	uint16	Class of resourcelink given by application. The resourcelink class can be used to identify resourcelink with the same purpose, like classid 1 for wake-up, 2 for going to sleep, etc. (best practice use range 1 – 10000)
owner	ASCII 10..40	Not writeable, this represents the owner (username) of the creator of the resourcelink
recycle	bool	When true: Resource is automatically deleted when not referenced anymore in any resource link. Only on creation of resourcelink. "false" when omitted.
links	list of resource paths	References to resources which are used by this resourcelink resource. In case the referenced resource was created with "recycle":true and no other references are present, the resourcelink resource will be automatically deleted when removed when empty.

Allowed resources paths (given as ASCII String with pattern: “/ <resource> / <resource id>”:

- Lights
- Sensors
- Groups
- Scenes
- Rules
- Schedules
- ResourceLinks

## 9.4. Update Resourcelinks

URL	<code>/api/&lt;username&gt;/resourcelinks/&lt;id&gt;</code>
Method	<code>PUT</code>
Version	1.12
Permission	Whitelist

### 9.4.1. Description

Updates individual or multiple attributes of an existing resourcelink. At least one attribute has to be provided.

### 9.4.2. Sample Body

```
{
  "name": "Sunrise",
  "description": "Carla's wakeup experience",
}
```

### 9.4.3. Sample Response

```
{
  "success": {
    "/resourcelinks/1/name": "Sunrise"
  },
  {
    "success": {
      "/resourcelinks/1/description": "Carla's wakeup
experience"
    }
  }
}]
```

## 9.5. Delete Resourcelinks

URL	<code>/api/&lt;username&gt;/resourcelinks/&lt;id&gt;</code>
-----	---

URL	<code>/api/&lt;username&gt;/resourcelinks/&lt;id&gt;</code>
Method	<code>DELETE</code>
Version	1.12
Permission	Whitelist

### 9.5.1. Description

Deletes the specified resourcelink from the bridge. When a resource is deleted in the bridge that is used in a resourcelink, it's also removed from links in the corresponding resourcelinks. Resourcelinks which become empty due to this action are only deleted if the "recycle" flag is set to true, else they will remain in the bridge.

### 9.5.2. Response

The response details whether the resourcelink was successfully removed from the bridge.

### 9.5.3. Sample Response

```
[{  
  "success": "/resourcelinks/1 deleted."  
}]
```



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