



How to **develop for Hue?**

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3.1. Get all schedules

URL	<code>/api/<username>/schedules</code>
Method	<code>GET</code>
Version	1.0
Permission	Whitelist

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3.1.1. Description

Gets a list of all schedules that have been added to the bridge.

3.1.2. Response

Returns a list of all schedules in the system.

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

3.1.3. Sample Response

```
{
  "1": {
    "name": "Timer",
    "description": "",
    "command": {
      "address": "/api/s95jtYH8HUVWNkCO/groups/0/action",
      "body": {
        "scene": "02b12e930-off-0"
      }
    }
  },
}
```

```

    "method": "PUT"
  },
  "time": "PT00:01:00",
  "created": "2014-06-23T13:39:16",
  "status": "disabled",
  "autodelete": false,
  "starttime": "2014-06-23T13:39:16"
},
"2": {
  "name": "Alarm",
  "description": "",
  "command": {
    "address": "/api/s95jtYH8HUVWnkC0/groups/0/action",
    "body": {
      "scene": "02b12e930-off-0"
    }
  },
  "method": "PUT"
},
"localtime": "2014-06-23T19:52:00",
"time": "2014-06-23T13:52:00",
"created": "2014-06-23T13:38:57",
"status": "disabled",
"autodelete": false
}
}

```

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start guide

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3.2. Create schedule

URL	<code>/api/<username>/schedules</code>
Method	<code>POST</code>
Version	1.0
Permission	Whitelist

3.2.1. Description

Allows the user to create new schedules. The bridge can store up to 100 schedules.

Starting 1.17, creations of schedules with PUT is deprecated. PUT on existing schedules is still allowed.

3.2.2. Body arguments

Name	Type	Description	
name	string 0..32	Name for the new schedule. If a name is not specified then the default name, "schedule", is used. If the name is already taken a	Optional

		space and number will be appended by the bridge, e.g. "schedule 1".	
description	string 0..64	Description of the new schedule. If the description is not specified it will be empty.	Optional
command	object	Command to execute when the scheduled event occurs. If the command is not valid then an error of type 7 will be raised. Tip : See below command object attributes for more information.	Required
time	string	Time when the scheduled event will occur. Time is measured in the bridge in UTC time. Either time or localtime has to be provided. DEPRECATED This attribute will be removed in the future. Please use localtime instead. The following time patterns are allowed: <ul style="list-style-type: none"> • Absolute time • Randomized time • Recurring times • Recurring randomized times • Timers For a full description of the allowed time	Required

		<p>pattern formats please check the allowed time patterns Incorrectly formatted dates will raise an error of type 7. If the time is in the past an error 7 will also be raised.</p> <ul style="list-style-type: none"> • “enabled” Schedule is enabled • “disabled” Schedule is disabled by user. 	
staus	string 5..16	Application is only allowed to set “enabled” or “disabled”. Disabled causes a timer to reset when activated (i.e. stop & reset). “enabled” when not provided on creation.	Optional
autodelete	bool	If set to true, the schedule will be removed automatically if expired, if set to false it will be disabled. Default is true. Only visible for non-recurring schedules.	Optional
localtime	string	Local time when the scheduled event will occur. Either time or localtime has to be provided. A schedule configured with localtime will operate on localtime and is returned along with the time	Required

recycle	bool	<p>attribute (UTC) for backwards compatibility. The following time patterns are allowed:</p> <ul style="list-style-type: none"> • Absolute time • Randomized time • Recurring times • Recurring randomized times • Timers <p>For a full description of the allowed time pattern formats please check the allowed time patterns. Incorrectly formatted dates will raise an error of type 7. If the time is in the past an error 7 will also be raised.</p> <p>When true: Resource is automatically deleted when not referenced anymore in any resource link. Only on creation of resource. "false" when omitted.</p>	Optional
---------	------	--	----------

Command object attributes:

Name	Type	Description	
address	string 1..64	Path to a light resource, a group resource or any other bridge resource (including "/api/<username>/")	Required
method	string 3..6	The HTTPS method	Required

		used to send the body to the given address. Either "POST", "PUT", "DELETE" for local addresses.	
body	string 1..90	JSON string to be sent to the relevant resource.	Required

3.2.3. Sample Body

```
{
  "name": "Wake up",
  "description": "My wake up alarm",
  "command": {
    "address": "/api/<username>/groups/1/action",
    "method": "PUT",
    "body": {
      "on": true
    }
  },
  "localtime": "2015-06-30T14:24:40"
}
```

3.2.4. Response

Contains a list with a single item that details whether the schedule was added successfully.

3.2.5. Response example

```
[{
  "success": {"id": "2"}
}]
```

3.2.6. Notes

The following errors can occur upon schedule creation:

code	description
701	Schedule list is full
702	Schedule time-zone not valid.
703	Schedule cannot set time and local time

3.3. Get schedule attributes

URL	<a href="/api/<username>">/api/<username>
-----	---

	<code>/schedules/<id></code>
Method	GET
Version	1.0
Permission	Whitelist

3.3.1. Description

Gets all attributes for a schedule.

3.3.2. Response

Nam	Type	Description
name	string 0..32	The name of the schedule.
description	string 0..64	Description of the schedule.
command	object 0..90	Command to execute when the scheduled event occurs.
time	string	<p>Time when the scheduled event will occur. DEPRECATED Will be removed in the future. Please use localtime instead.The following time patterns are allowed:</p> <ul style="list-style-type: none"> • Absolute time • Randomized time • Recurring times • Recurring randomized times • Timers <p>For a full description of the allowed time pattern formats please check the allowed time patterns</p>
localtime	string	<p>Time when the scheduled event will occur.The following time patterns are allowed:</p> <ul style="list-style-type: none"> • Absolute time • Randomized time • Recurring times • Recurring randomized times • Timers

		For a full description of the allowed time pattern formats please check the allowed time patterns
starttime	string	UTC time that the timer was started. Only provided for timers. <ul style="list-style-type: none"> • “enabled” Schedule is enabled • “disabled” Schedule is disabled by user.
status	string 5..16	Application is only allowed to set “enabled” or “disabled”. Disabled causes a timer to reset when activated (i.e. stop & reset). “enabled” when not provided on creation.
autodelete	bool	If set to true, the schedule will be removed automatically if expired, if set to false it will be disabled. Default is true

3.3.3. Sample Response

```
{
  "name": "Wake up",
  "description": "My wake up alarm",
  "command": {
    "address": "/api/<username>/groups/1/action",
    "method": "PUT",
    "body": {
      "on": true
    }
  },
  "time": "W124/T06:00:00"
}
```

Note: W124/T06:00:00 means every weekday at 06:00.

3.4. Set schedule attributes

URL	<a href="/api/<username>/schedules/<id>">/api/<username>/schedules/<id>
Method	PUT
Version	1.0

Permission

Whitelist

3.4.1. Description

Allows the user to change attributes of a schedule.

3.4.2. Body arguments

Name	Type	Description	
name	string 0..32	Name for the schedule.If the name is already taken a space and number will be appended by the bridge, e.g. "schedule 1".	Optional
description	object 0..64	Description of the schedule.	Optional
command	object 0..90	Command to execute when the scheduled event occurs. If the command is not valid then an error of type 7 will be raised. Tip : Stripping unnecessary whitespace can help to keep commands within the 90 character limit.	Optional
time	string	<p>Deprecated Please use localtime instead. The following time patterns are allowed:</p> <ul style="list-style-type: none"> • Absolute time • Randomized time • Recurring times • Recurring randomized times • Timers <p>For a full description of the allowed time pattern formats please check the</p>	Optional

		<p>allowed time patterns. Incorrectly formatted dates will raise an error of type 7. If the time is in the past an error 7 will also be raised.</p> <p>The following time patterns are allowed:</p> <ul style="list-style-type: none"> • Absolute time • Randomized time • Recurring times • Recurring randomized times • Timers 	
localtime	string	<p>For a full description of the allowed time pattern formats please check the allowed time patterns. Incorrectly formatted dates will raise an error of type 7. If the time is in the past an error 7 will also be raised.</p>	Optional
status	string 5..16	<p>“disabled” causes a timer to reset when activated (i.e. stop & reset).</p>	Optional
autodelete	bool	<p>If set to true, the schedule will be removed automatically if expired, if set to false it will be disabled. Default is true</p>	Optional

3.4.3. Sample Body

```
{
  "name": "Wake up"
```

```
}
```

3.4.4. Response

A response to a successful **PUT** request contains confirmation of the arguments passed in. Note: If the new value is too large to return in the response due to internal memory constraints then a value of "Updated." is returned.

3.4.5. Sample Response

```
[  
  { "success": {"/schedules/1/name": "Wake up"}}  
]
```

3.5. Delete schedule

URL	<code>/api/<username>/schedules/<id></code>
Method	DELETE
Version	1.0
Permission	Whitelist

3.5.1. Description

Deletes a schedule from the bridge.

3.5.2. Response

The response details whether the schedule was successfully deleted.

3.5.3. Sample Response

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



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