

MIYO Cube WebSocket API

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- UPnP discovery

Relevant response parts:

SERVER: miyocube/*VERSION_NUMBER*

UDN: uuid:*CUBE_ID*::upnp:rootdevice

- Avahi/Bonjour

Miyocube.local

- Websocket request

Port 3810, json, case-sensitive

ws://*IP*:3810

Beispiel:

```
{
  "id": 1,
  "apiKey": "{abc-def-123}",
  "method": "Device.all",
  "params": {
    "circuitId": "{abc-1234-defg}",
    "deviceId": "{abc-1234-defg}"
  }
}
```

Eine Notification enthält die „id“: -1 und das Feld „notification“ mit der Info, was sich geändert hat, z.B. „Device.stateChanged“, „Circuit.stateChanged“, „Weather.changed“...

Beispielnachricht:

```
{
  "id": -1,
  "notification": "Device.stateChanged",
  "params": {
    "deviceId": "{abc-1234-defg}",
    "type": "rssi",
  }
}
```

```
"value": -41
}
}
```

- **Methoden ohne Authentifizierungsschlüssel**

“Link.all” - Liefert einen neuen apiKey, wenn ein neuer Zugriff erlaubt ist. Ein Knopfdruck am Cube bzw. „allowlink“ erlauben den Zugriff für 15 Minuten bzw. für eine einmalige Anfrage.

“System.update”- Plant das nächste Update. Update wird nicht sofort gestartet. Siehe „config“ und updateStatus.

- **Methoden mit Authentifizierungsschlüssel**

Authentifizierungsparameter

apiKey	required	Authenticationkey	String
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- **Device (Sensor und Ventil) Methoden:**

“Device.all” - Liefert die information aller Geräte.

“Device.free” - Liefert nur nicht zugewiesen Geräte (Alle die nicht einem Bewässerungsbereich zugeordnet sind).

“Device.remove” - Löscht ein Gerät.

deviceId	required	ID of the device	String
----------	----------	------------------	--------

“Device.teachin” - Lernt Geräte ein, die den Magneten angehalten bekommen haben.

“Device.highlight” - Aktiviert die LED am vorgegebenen Device.

deviceId	required	ID of the device	String
----------	----------	------------------	--------

Beispielantwort:

```
{
  "id": 0,
  "params": {
    "devices": {
      "{16762df9-c3b7-4f68-b8af-ccd47e7eddb5};1": {
        "channel": 1,
        "deviceTypeId": "valve",
        "firmware": "1.10.0",
        "id": "{16762df9-c3b7-4f68-b8af-ccd47e7eddb5}",
        "ipv6": "fe80::211:7d00:30:edbc%zmd0",
        "lastUpdate": 1527235914,
        "name": "viRaValve",
        "stateTypes": {
          "0": {
            "type": "valveInitialClose",
            "value": false
          },
          "1": {
            "type": "valveStatus",
            "value": false
          },
          "10": {
            "type": "lastChargingTime",
            "value": 1527235914
          },
          "11": {
            "type": "lowPower",
            "value": false
          },
          "12": {
            "type": "otauPossible",
            "value": false
          },
          "13": {
            "type": "otauProgress",
            "value": 0
          },
          "14": {
            "type": "otauStatus",
            "value": ""
          }
        }
      }
    }
  }
}
```

```
"15": {
  "type": "winterMode",
  "value": false
},
"16": {
  "type": "chargingDurationWeekly",
  "value": 81
},
"17": {
  "type": "chargingDurationDay",
  "value": 11.571428571429
},
"18": {
  "type": "charging",
  "value": true
},
"19": {
  "type": "chargingLess",
  "value": false
},
"2": {
  "type": "openValve",
  "value": false
},
"20": {
  "type": "clientChargingTime",
  "value": 0
},
"3": {
  "type": "lastIrrigationStart",
  "value": 0
},
"4": {
  "type": "lastIrrigationEnd",
  "value": 1527033928
},
"5": {
  "type": "lastIrrigationDuration",
  "value": 1527033928
},
"6": {
  "type": "rssi",
```

```
"value": -78
},
"7": {
  "type": "reachable",
  "value": true
},
"8": {
  "type": "solarVoltage",
  "value": "4.25"
},
"9": {
  "type": "sunWithinWeek",
  "value": true
}
}
},
"{db31afa8-f851-4f26-81a2-c50f34c9068c};1": {
  "channel": 1,
  "deviceTypeId": "moistureOutdoor",
  "firmware": "",
  "id": "{db31afa8-f851-4f26-81a2-c50f34c9068c}",
  "ipv6": "fe80::211:7d00:30:eba3%zmd0",
  "lastUpdate": 1527033850,
  "name": "viRaMoistureSensor",
  "stateTypes": {
    "0": {
      "type": "moisture",
      "value": 0
    },
    "1": {
      "type": "brightness",
      "value": 3238
    },
    "10": {
      "type": "sunWithinWeek",
      "value": false
    },
    "11": {
      "type": "lastChargingTime",
      "value": 1526036974
    },
    "12": {
```

```
"type": "lowPower",
"value": false
},
"13": {
  "type": "otauPossible",
  "value": false
},
"14": {
  "type": "otauProgress",
  "value": 0
},
"15": {
  "type": "otauStatus",
  "value": ""
},
"16": {
  "type": "winterMode",
  "value": false
},
"17": {
  "type": "chargingDurationWeekly",
  "value": 0
},
"18": {
  "type": "chargingDurationDay",
  "value": 0
},
"19": {
  "type": "charging",
  "value": false
},
"2": {
  "type": "temperature",
  "value": 28
},
"20": {
  "type": "chargingLess",
  "value": true
},
"21": {
  "type": "clientChargingTime",
  "value": 0
}
```

```
},
"3": {
  "type": "frequency",
  "value": 0
},
"4": {
  "type": "irrigationNecessary",
  "value": false
},
"5": {
  "type": "irrigationPossible",
  "value": false
},
"6": {
  "type": "temperatureOffset",
  "value": 0
},
"7": {
  "type": "rssi",
  "value": -100
},
"8": {
  "type": "reachable",
  "value": false
},
"9": {
  "type": "solarVoltage",
  "value": 0
}
}
}
}
},
"status": "success"
}
```

Feld

id		String
status		String

params		Object
devices	List of all devices	Object

● Circuit Methoden

“Circuit.all” - Liefert Informationen zu allen Bewässerungsbereichen.

“Circuit.status” - Liefert Informationen zu einem Bewässerungsbereich, analog zu „all“ bezieht sich aber auf nur einen Bereich.

circuitId	required	ID of the device	String
-----------	----------	------------------	--------

“Circuit.types” - Liefert die möglichen Typen für Bodenbeschaffenheit, Bewässerungsgerät, Pflanze und Ort.

circuitId	required	ID of the device	String
-----------	----------	------------------	--------

“Circuit.add” - Fügt einen neuen Bewässerungsbereich hinzu.

circuitId	required	ID of the device	String
sensorId	required	ID of the the sensor in the circuit	String
name	required	Name of the circuit	String

“Circuit.edit” - Bearbeiten eines Bewässerungsbereich.

circuitId	required	ID of the device	String
borderTop	not required	Humidityborder	String
borderBottom	not required	Humidityborder	String
day0 (day1, day2, day3, day4, day5, day6)	not required	Allowed irrigationtime format: 6:00-13:00;14:00-15:21	String

“Circuit.irrigation” - Start/Stop der Bewässerung.

circuitId	required	ID of the device	String
mode	required	start or stop	String
duration	not required	Duration of the irrigation	String

“Circuit.remove” - Löscht den Bewässerungsbereich.

circuitId	required	ID of the device	String
-----------	----------	------------------	--------

“Circuit.winter” - Ein-/Ausschalten des Wintermodus.

circuitId	required	ID of the device	String
winter	required	Turning winter mode on or off	Boolean

“Circuit.log” - Liefert eine Statistik.

circuitId	required	ID of the device	String
timeFilters			Array of Objects
endDate			String
endDate			String

Beispielantwort:

```
{
  "id": 0,
  "params": {
    "circuits": {
      "{abc-1234-defg}": {
        "id": "{abc-1234-defg}",
        "name": "Test",
        "params": {
          "automaticMode": false,
          "borderBottom": "60",
          "borderTop": "80",

```

```
"considerMower": false,
"day0": "",
"day1": "",
"day2": "",
"day3": "",
"day4": "",
"day5": "",
"day6": "",
"irrigationType": 0,
"locationType": 0,
"plantType": 1,
"soilType": 0,
"valveStaggering": true
},
"sensor": "0",
"sensorValve": {
  "channel": 1,
  "valve": "{abc-1234-defg}"
},
"stateTypes": {
  "0": {
    "type": "irrigation",
    "value": false
  },
  "1": {
    "type": "automaticMode",
    "value": false
  },
  "2": {
    "type": "winterMode",
    "value": false
  },
  "3": {
    "type": "irrigationNextStart",
    "value": 0
  },
  "4": {
    "type": "irrigationNextEnd",
    "value": 0
  },
  "5": {
    "type": "valveStaggeringIndex",
    "value": 0
  }
},
"valves": {
  "0": {
```

```

    "channel": 1,
    "valve": "{abc-1234-defg}"
  }
}
},
"status": "success"
}

```

Feld

params		Object
circuits	List of all circuits	Object
id	ID of the circuit	String
name	Name of the circuit	String

● Extern Methoden

“Extern.status” - Liefert die aktuellen Werte der externen Geräte „rain“, „temperature“, „wind“ und „mower“.

“Extern.rain” - Informiert MIYO über das Wetter.

rain	required		boolean
------	----------	--	---------

“Extern.wind” - Definiert ob der Wind zu stark ist.

wind	required		boolean
------	----------	--	---------

“Extern.block” - Verbietet/Erlaubt die Bewässerung, z.b. während einer Party.

circuitId	required	ID of the device	String
block	required		boolean

“Extern.mower” - Definiert ob ein Rasenmäher gerade aktiv ist oder nicht.

circuitId	required	ID of the device	String
-----------	----------	------------------	--------

running	required		boolean
---------	----------	--	---------

“Extern.temperature” - Zeigt die Temperatur von externen Geräten.

Beispielantwort:

```
{
  "id": 0,
  "params": {
    "mower": null,
    "rain": null,
    "temperature": null,
    "wind": null
  },
  "status": "success"
}
```

Feld

mower		
rain		
temperature		
wind		

- System Methoden

“System.status” - Zeigt Informationen zum Cube an.

“System.time” - Liefert die aktuelle lokale Zeit und Zeitzone.

“System.timezone” - Liefert alle Zeitzonen.

“System.weather” - Liefert das Wetter.

“System.reboot” - Startet den Cube neu.

“System.reset” - Zurücksetzen auf Werkseinstellung.

“System.reconnect” - Veranlasst den Cube eine Verbindung mit dem Internet herzustellen.

“System.position” - GPS Position des Cube setzen (Notwendig für Weather forecast).

lon	erforderlich	Longitude	String
lat	erforderlich	Latitude	String

“System.allowlink” - Erlaubt einen neuen Benutzer.

“System.cloud” - Aktiviert bzw deaktiviert die Cloud-Verbindung.

allowed	required	Activates or deactivates the cloud connection	boolean
---------	----------	---	---------

“System.timezone” - Zeitzone des Cube setzen.

timezone	required	startDate and endDate	String
----------	----------	-----------------------	--------

Beispielantwort:

```
{
  "id": 0,
  "params": {
    "cloudAllowed": true,
    "lat": "",
    "linkMode": false,
    "lon": "",
    "updateStatus": 0,
    "uuid": "{abc-1234-defg}",
    "version": "0.90.1"
  },
  "status": "success"
}
```

Feld

cloudAllowed	If cloud connection is allowed	boolean
lat	Latitude	
linkMode	Allows access for 15 minutes or onetime request.	boolean
lon	Longitude	
UpdateStatus	"0" - not scheduled "1" - scheduled "2" - checking device "3" - installing "4" - error at last update	String
uuid	UUID	String
version	Currently installed firmware version	String
clock		Object
timestamp	UNIX time	Unsigned Integer
timezone	timezone	String

● Logging Methoden

Endpoint URL "Logging.entries"

Beispielantwort:

```
{
  "id": 0,
  "params": {
    "history": [
      {
        "circuitId": "{abc-1234-defg}",
        "deviceId": "{abc-1234-defg}",
        "source": "LoggingSourceState",
        "stateTypeId": "irrigation",
        "timestamp": 1526020572000,
        "value": "false"
      },
      {
        "circuitId": "{abc-1234-defg}",
        "deviceId": "{abc-1234-defg}",

```

```

    "source": "LoggingSourceState",
    "stateTypeld": "irrigation",
    "timestamp": 1526025137000,
    "value": "false"
  },
  {
    "circuitId": "{abc-1234-defg}",
    "deviceId": "{abc-1234-defg}",
    "source": "LoggingSourceState",
    "stateTypeld": "irrigation",
    "timestamp": 1526032918000,
    "value": "false"
  },
  {
    "circuitId": "{abc-1234-defg}",
    "deviceId": "{abc-1234-defg}",
    "source": "LoggingSourceState",
    "stateTypeld": "solarVoltage",
    "timestamp": 1526037953000,
    "value": "4.01"
  },
  {
    "circuitId": "{abc-1234-defg}",
    "deviceId": "{abc-1234-defg}",
    "source": "LoggingSourceState",
    "stateTypeld": "lastChargingTime",
    "timestamp": 1526037953000,
    "value": "1526037953"
  }
]
},
"status": "success"
}

```

Feld

circuitId		String
deviceId		String
stateTypeld		String
timestamp		Unsigned Integer
value		String

- Objects

- Circuit

id		
name		String
automaticMode		Boolean
borderBottom	Humidityborder	String
borderTop	Humidityborder	String
day0		
irrigationType		Integer
locationType		Integer
plantType		Integer
soilType		Integer
valveStaggering		boolean
sensor		
stateTypes		
valves		Object

- Devices

- *Valve*

channel		Unsigned integer
deviceTypeid	Type of the device	String
firmware	Currently installed firmware version	String
id	ID of the device	String
ipv6	IPv6	String
lastUpdate	The UNIX time when the device was last updated	Unsigned integer
name	Name of the device	String
stateTypes	List of all stateTypes	Object
type	Name of the stateType	String
value	Value of the stateType	

- *Sensor*

channel		Unsigned integer
deviceTypeid	Type of the device	String
firmware	Currently installed firmware version	String
id	ID of the device	String
ipv6	IPv6	String
lastUpdate	The UNIX time when the device was last updated	Unsigned integer
name	Name of the device	String
stateTypes	List of all stateTypes	Object
type	Name of the stateType	String
value	Value of the stateType	