

Quick Access Mobile

Domoticz Custom User Interface

by rwbl
developed for personal use only

Objectives

To develop for personal use only, a Custom Web Frontend for the [Domoticz Home Automation System](#)

- control frequently used functions, like lights, thermostats, shutter/blinds, climate & key dates information.
- simple to use user interface with limited components, i.e. buttons, dropdowns, modal info pages.
- mainly accessed from mobile devices running Android or iOS.
- located on a Raspberry Pi running Domoticz 2020.2.
- created with HTML, JavaScript modules, CSS styles.
- interacting with Domoticz using JSON via [HTTP API requests](#).
- flexible in maintaining Domoticz devices by using room plans & device properties to setup HTML interface.

Background

The application has been developed, based on a request to enable simple access to Domoticz from any device in a local network. Meant by simple access, is a user interface with limited components on a mobile device screen having large sized components, like text, buttons, dropdowns. Functions are grouped, separated by horizontal rules. Each function having similar layout depending its required components. The screen must be scrollable to select a function.

A function is used to control dedicated devices, like lights, thermostats, shutter/blinds and to inform about climate & key dates.

☐ **Burger Menu**
Climate, Key Dates

☐ **Shutter/Blinds**
Up,
Stop,
Down

☐ **Lights**
On,
Off,
Level 0-100%

☐ **Thermostats**
On (21°C),
Off (6°C)

☐ **Version & Debug**
Information

Main Page – index.html

Domoticz

Rolladen

wohnzimmer

Lampen

wohnzimmer

off

Heizung

wohnzimmer-1

6 °C

v20200925

10:34:17, setDevicePropertyLabel, Wohnzimmer, Data, Off, #labelhuestate, OK

Burger Menu Climate, Key Dates

Domoticz

Klima

Termine

Klima

Tageslicht (Std)

26-09 07:15 - 19:09 (11:54)

Luftdruck

997 hPa

Aussen

11.8 C, 82 %

Wohnzimmer

18.2 C, 57 %

Select Light

Lampen

wohnzimmer

wohnzimmer

Ute

TV

Schrankwand

Rob

Esszimmer

Eingangstür

MakeLab

Lampen Zeitschaltung

☐ **Burger Menu**
Climate, Key Dates

☐ **Shutter/Blinds**
Up,
Stop,
Down

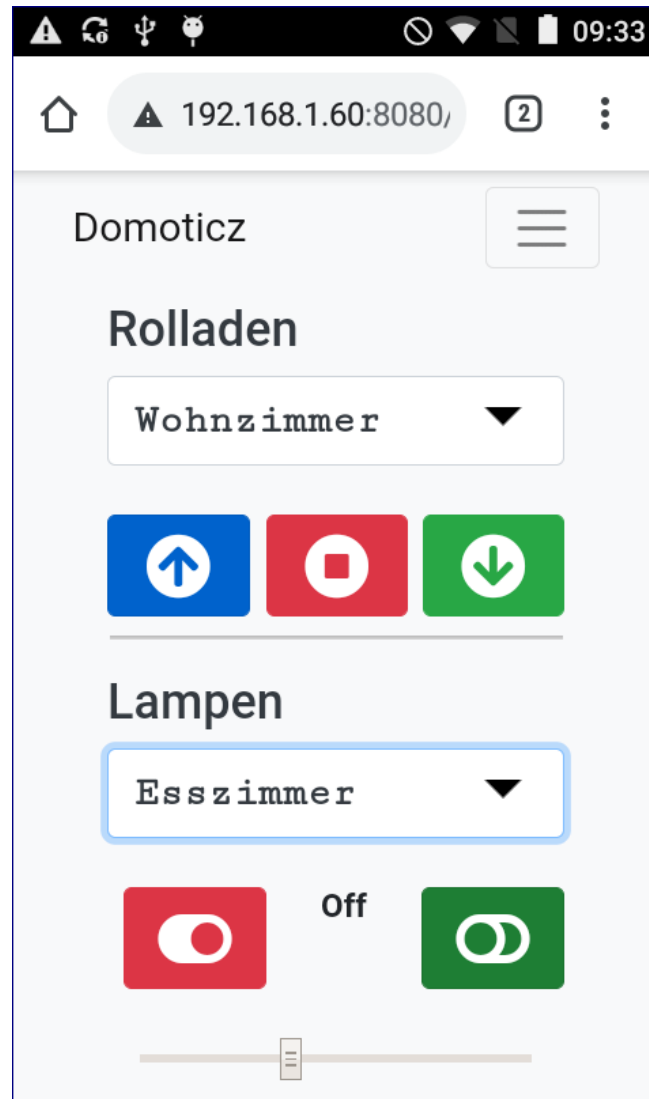
☐ **Lights**
On,
Off,
Level 0-100%

NOT VISIBLE ON SCREENSHOT

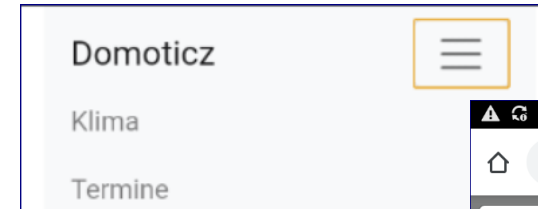
☐ **Thermostats**
On (21°C),
Off (6°C)

☐ **Version & Debug**
Information

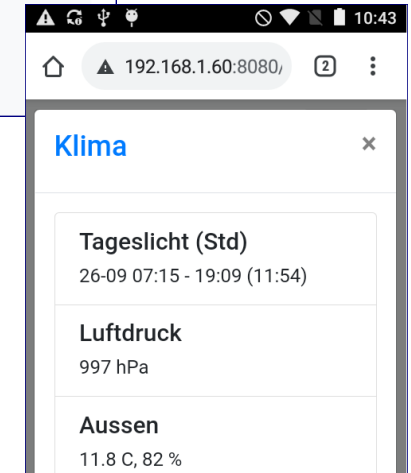
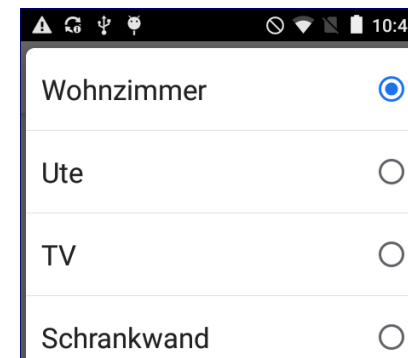
Main Page – index.html



Burger Menu Climate, Key Dates



Select Light

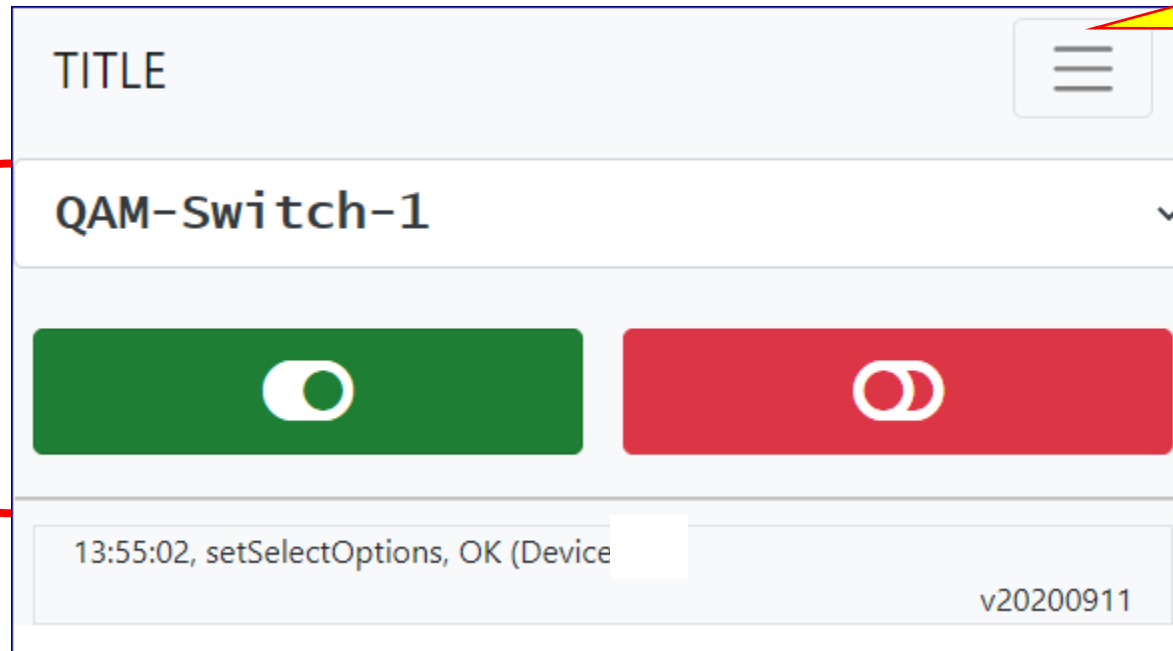


UI Concept

**Basic
Example**

Domoticz Customized Web UI access from any browser with focus on mobile device usage.

The HTML file is located on the Domoticz system and opened with `http://domoticz-ip/qam/basic.html`



Function with select
options and wo
switches

Burger Menu
with modal
information dialogs

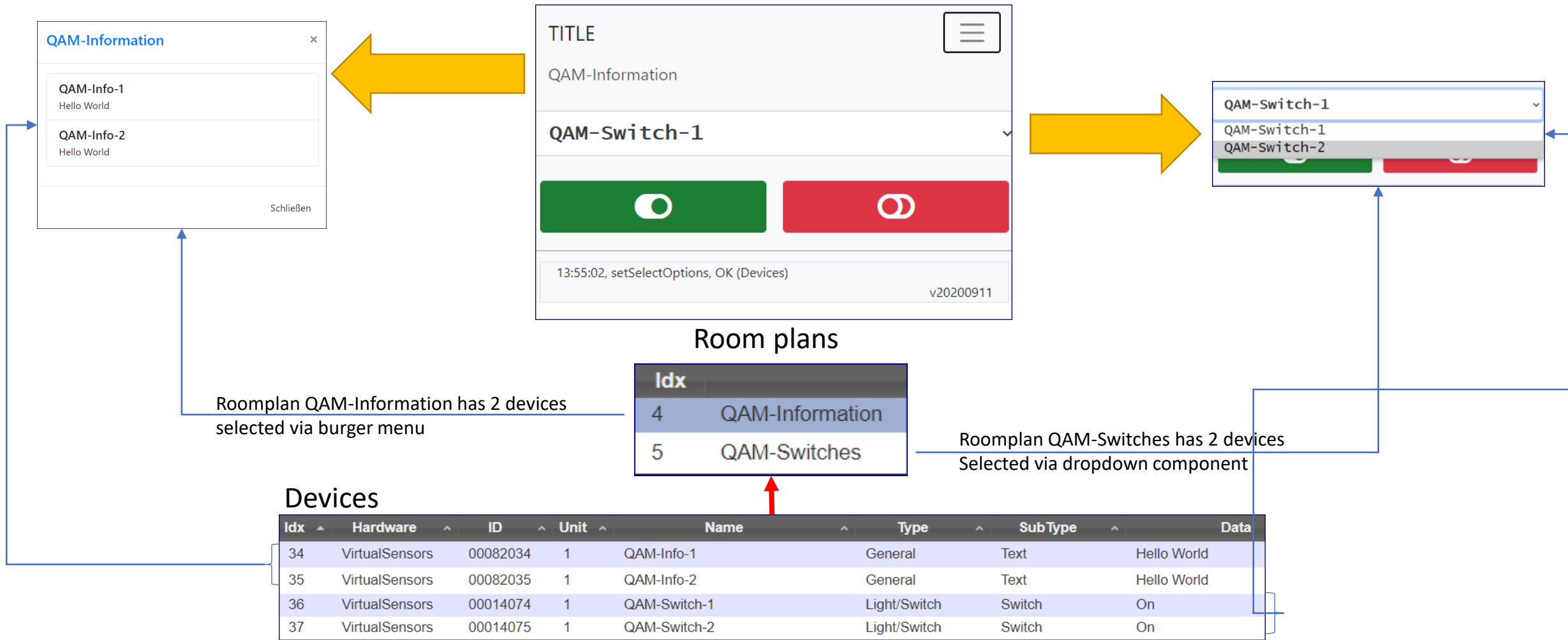
Debug Status &
Version information

Room Plans

Basic
Example

The Burger Menu Dialogs and Functions use Domoticz Devices build from dedicated Domoticz room plans:

Flexible plan & device management (add, change, delete, rename), Configuration in Domoticz and not in QAM, Device control via HTTP API REST Requests, Automation Event dzVents handle changes in cases



HTML Layout

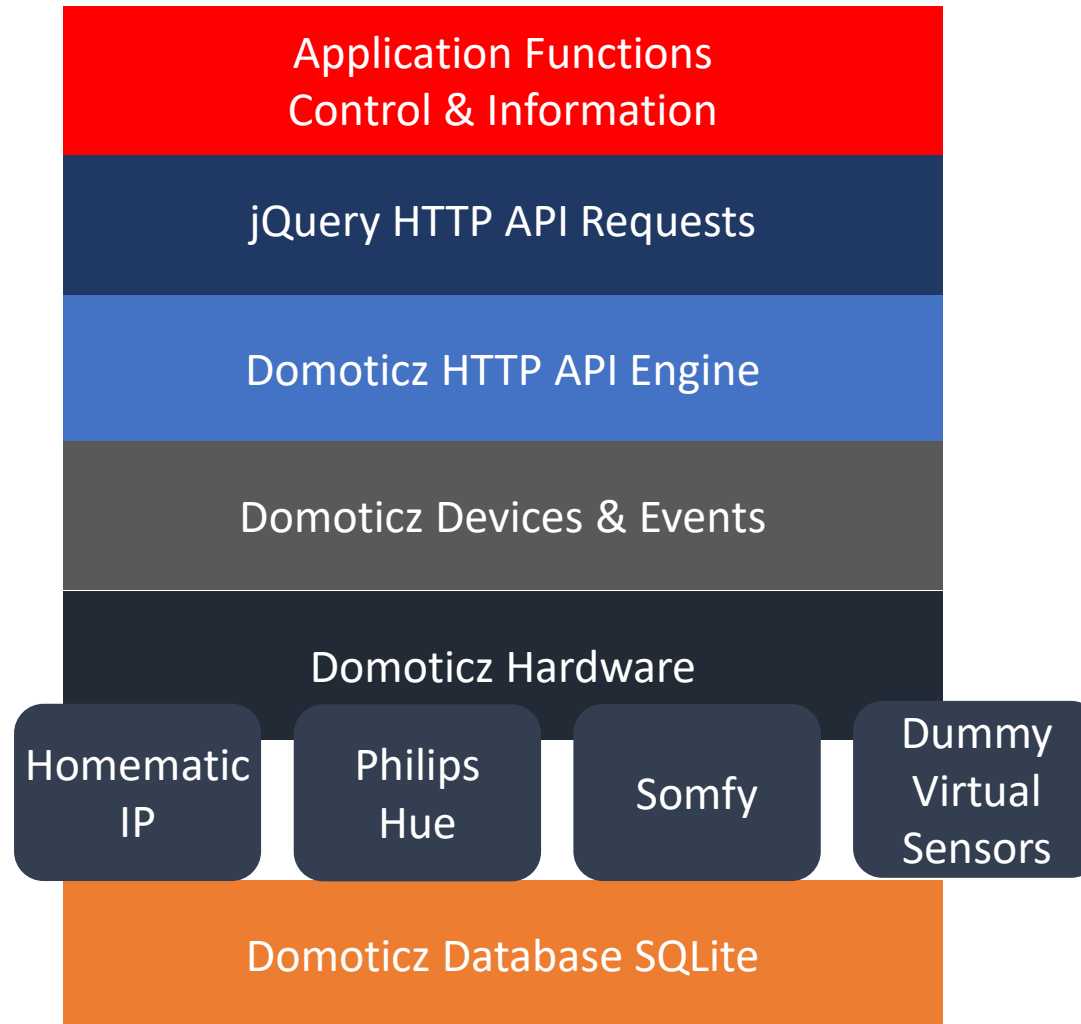
Basic
Example

HTML layout using Bootstrap 12 Column Grid with Fluid Containers

Function with select
options and wo
switches

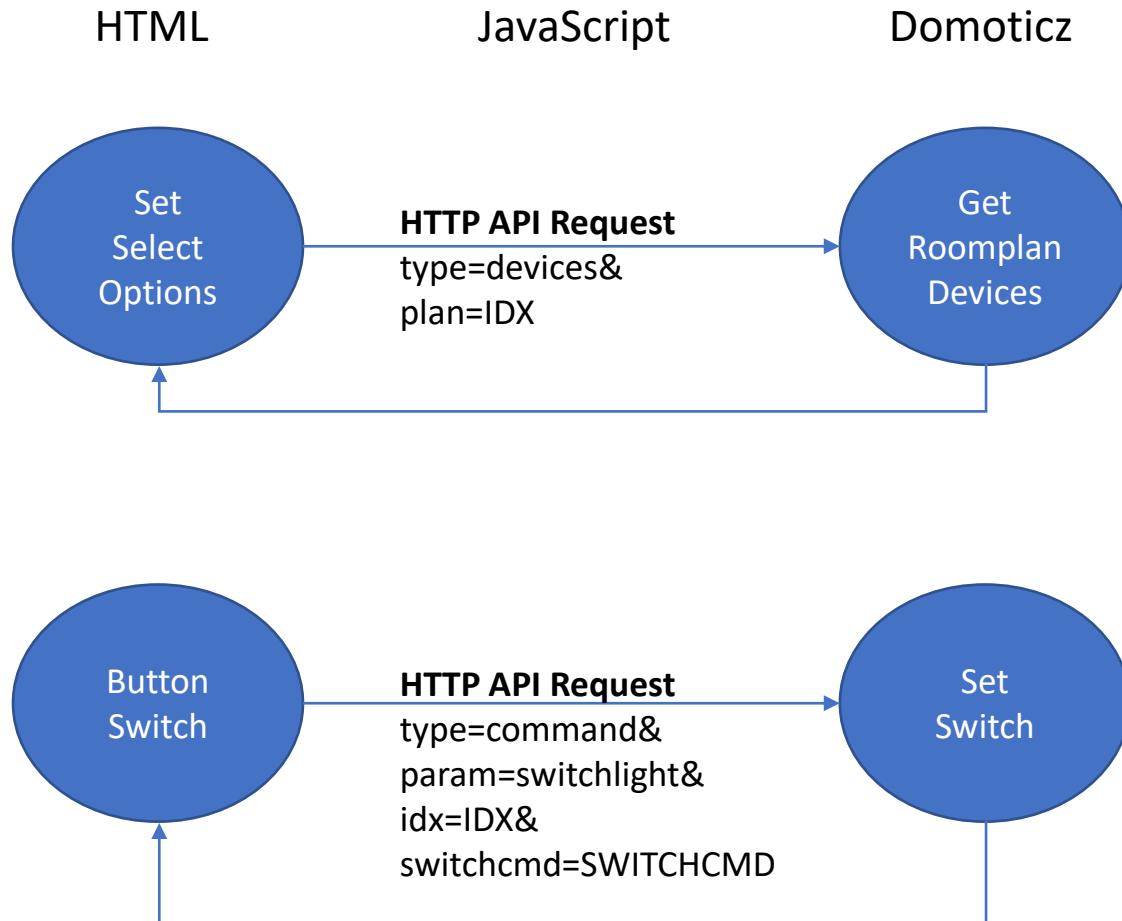
Navbar wit Burger Menu id="nav-item-information" onclick="showInformationDialog(IDX_ROOMPLAN_QAM_INFORMATION, 'Information')"											
Row Col-12 Form-Group with Form-Control Select Picker id="selectswitch"											
Row Col-12 Btn-Group with 2 Buttons id="btnswitchon", id="btnswitchoff"											
Row Col-12 HR											
Row Col-10 Status id="actionstatus"										Row Col-2 Version id="version"	

Overview Communication



HTTP API Requests

URL: <http://domoticz-ip:port/json.htm?...>



JavaScript Example Switching a Device

```
/*
Switch On, Off
Example: switchDevice(URL_SWITCH_DEVICE, "selectswitch", "On")
*/
function switchDevice(requestUrl, selectorSwitch, switchCmd)
{
    // Select the deviceidx
    deviceIdx = $(selectorSwitch).val();
    deviceName = $(selectorSwitch).find('option:selected').text();
    requestUrl = requestUrl.replace("#IDX#", deviceIdx).replace("#SWITCHCMD#", switchCmd);
    console.log("switchDevice: " + requestUrl);
    $.getJSON(
        requestUrl,
        {
            format: "json"
        },
        function(data)
        {
            // Expect JSON result: {"status" : "OK", "title" : "SwitchLight"}
            if (typeof data != 'undefined')
            {
                setStatus("switchDevice, " + deviceName + ", " + switchCmd + ", " + data.status);
            }
            else
            {
                setStatus("switchDevice, " + deviceName + ", " + switchCmd + ", " + MSG_ERR_GETJSON);
            }
        }
    );
}
```