

Sonos Control

Overview

These instructions outline how to create a homekit device to play an internet stream on your Sonos device.

These scripts are used with the CMD4 Plugin for Homebridge.

Cmd4 Script

playMusic.js

```
// playMusic.js
//
// > SONOS_HOST=192.168.1.21 node playMusic.js Get anything On 1
//
// Parameters are:
//   Get <accessory name> <characteristic>
//   Set <accessory name> <characteristic> <value>

'use strict';

// Fan
const CHARACTERISTIC_ON="Active"
const CHARACTERISTIC_VOLUME="RotationSpeed"

//Sonos variables
const Sonos = require('sonos').Sonos
const sonos = new Sonos(process.env.SONOS_HOST)

const stationId = 'sl3606'
const stationTitle = 'Radio Paradise'

var length = process.argv.length;
var device = "";
var io = "";
var characteristic = "";
var option = "";

if (length == 2) process.exit(0);

if (length <= 2) {
  console.log("Usage: " + __filename + " <Get|Set> <AccessoryName> [Value]");
  process.exit(-1);
}

if (length >= 2) io = process.argv[2];
if (length >= 3) device = process.argv[3];
if (length >= 4) characteristic = process.argv[4];
if (length >= 5) option = process.argv[5];

/*
 * playMusic
 */
const playMusic = function(){

  sonos.getCurrentState().then(state => {
    if(state != "playing"){
      sonos.playTuneinRadio(stationId, stationTitle).then(success => {
        console.log("PlayMusic on device: " + device + " done! ");
      }).catch(err => {
        console.log('Error occurred %j', err)
      });
    }
  }).catch(err => { console.log('Error occurred %j', err) })
}
```

```

/*
 * stop
 *
 */
const stop = function(){

    sonos.stop().then(success => {
        console.log("Stop music on device: " + device + " done! ");
    }).catch(err => {
        console.log('Error occurred %j', err)
    });
}

/*
 * getState
 *
 */
const getState = function(){

    sonos.getCurrentState().then(state => {
        if(state == "playing"){
            console.log('1');
        }else{
            console.log('0');
        }
    }).catch(err => { console.log('Error occurred %j', err) })
}

/*
 * getVolume
 *
 */
const getVolume = function(){

    sonos.getVolume().then(volume => {
        console.log(volume);
    }).catch(err => { console.log('Error occurred %j', err) })
}

/*
 * setVolume
 *
 */
const setVolume = function(volume){

    if(volume <= 50){
        sonos.setVolume(volume).then(success => {
            console.log("Volume on device: " + device + " set to " + volume);
        }).catch(err => {
            console.log('Error occurred %j', err)
        });
    }else{
        console.log('Too Loud!')
    }
}

switch(io)
{
    case "Get":
    {
        switch(characteristic)
        {
            case CHARACTERISTIC_ON:
            {
                getState();
                break;
            }
            case CHARACTERISTIC_VOLUME:
            {

```

```

        getVolume();
        break;
    }
    default:
        console.log("Unknown Characteristic for:" + io + " Device:" + device + " Characteristic:"
+ characteristic);
        process.exit(-1);
    }
    break;

} // End of Switch for "Get"
case "Set":
{
    switch(characteristic)
    {
        case CHARACTERISTIC_ON:
        {
            switch(option)
            {
                case "0":
                    stop();
                    break;
                case "1":
                    playMusic();
                    break;
                default:
                    console.log("Unknown Option '" + option + "' for:" + io + " Device:" + device + "
Characteristic:" + characteristic);
                    process.exit(-1);
            }
            break;
        }
        case CHARACTERISTIC_VOLUME:
        {
            setVolume(option);
            break;
        }
        default:
            console.log("Unknown Characteristic for:" + io + " Device:" + device + " Characteristic:"
+ characteristic);
            process.exit(-1);
        }
        break;

    } // End of Switch Device for "Set"
    default:
        console.log("Unknown IO" + io );
        process.exit(-1);
    }
}

```

Homebridge Configuration

config.json

```
...
    {
      "platform": "Cmd4",
      "name": "Cmd4",
      "accessories": [
        {
          "type": "Fanv2",
          "displayName": "Kitchen Sonos",
          "active": "INACTIVE",
          "rotationSpeed": 10,
          "name": "Kitchen Sonos",
          "timeout": 30000,
          "polling": false,
          "interval": 100,
          "stateChangeResponseTime": 3,
          "state_cmd": "SONOS_HOST=192.168.1.21 node /homebridge/Cmd4Scripts/playMusic.js"
        }
      ]
    }
  ]
}
```

References

| Reference | URL |
|----------------------------|---|
| Cmd4 Plugin for Homebridge | https://github.com/ztaibot2000/homebridge-cmd4 |
| | |