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Turn a switch on/off using the web-interface

! Attention !

You will destroy the original Web-interface with this startup-script!

Do this only if you are familiar with some rescue commands on the linux command-line on ssh!

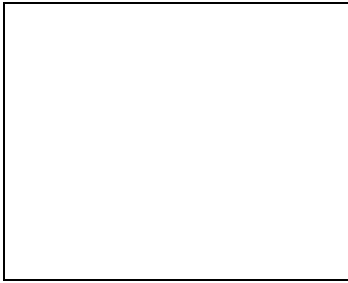
Uses

- Hook it up to your car's door switch and open your car with your wifi enabled cellphone.
- If you have Remote Start System installed on your car you can hook up the remote control of the system to your f.i.c.s. (fonera internet controlled switch) and turn ON/OFF your car from the internet
- Open your house/garage door.
- Turn ON/OFF your POOL PUMP.
- Restart additional routers with f.i.c.s.

Parts needed

- New/Safer circuit will be posted soon.

Schematics

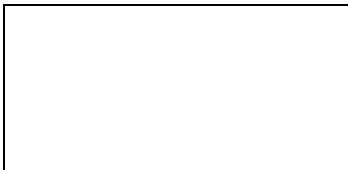


overview

Router configuration

- Log on to your router (192.168.1.1)
- Go to **Administration > Management**

enable **jffs2**



web-interface - jffs2

- Go to **Administration > Services**

enable **ssh**



web-interface - ssh

LaFonera_Hardware_Controlling_AC-Loads_via_webinterface

- Go to **Administration > Commands**

type:

```
echo 1 > /proc/gpio/3_dir  
rmdir /tmp/www; ln -s /jffs/www /tmp
```

- Click **Save Startup**



web-interface - save startup

- Now log on to your router using ssh

```
ssh root@192.168.1.1
```

- type:

```
cd /jffs  
mkdir www  
cd www  
mkdir cgi-bin  
cd cgi-bin  
wget http://wildblue.de/fonera/controlling_ac-loads/index  
wget http://wildblue.de/fonera/controlling_ac-loads/on  
wget http://wildblue.de/fonera/controlling_ac-loads/off  
wget http://wildblue.de/fonera/controlling_ac-loads/blink  
chmod +x on off index blink
```

- go to <http://192.168.1.1/user/cgi-bin/index>



new web-interface

Now you can control the switch simply by clickin ON or OFF from your favorite browser (i use my cell phone to activate the switch thru the web interface). Since my linux kung-fu skills are not

developed yet, it took me some time to get familiar with .sh scripts.

Original Idea

<http://www.cryptonoid.blogspot.com> (f.i.c.s. Fonera Internet Controlled Switch)

<http://www.youtube.com/watch?v=wKPsH34InMo> (Watch the f.i.s.c in action - video)

Development

since im not very good in programming shell scripts can someone write a Shell script where the user will be able to schedule the f.i.c.s. to go ON/OFF at certain times thru the web interface.

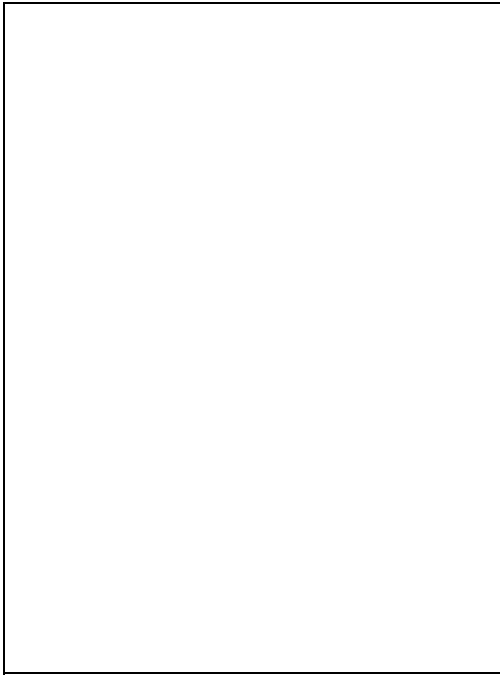
this page was made by [wildblue!](#)

A Different Method

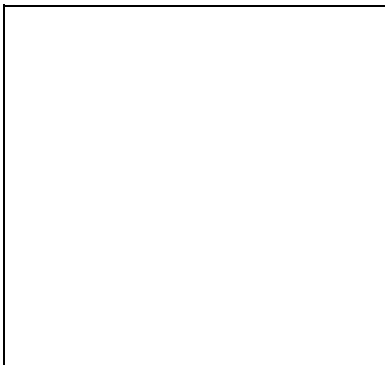
The original author was on the right track. The easiest way to do this is with a solid state relay (SSR). Please note, relaying DC is VERY DIFFERENT from relaying AC.

Note, there are mechanical relays that can do DC or (BE CAREFUL, ONLY IF YOU KNOW WHAT YOU ARE DOING) AC. SSR's can only do AC, and will not switch DC current.

The diagram below shows how to connect an AC load, a AC LAMP to a solid state relay, and the relay to your FON. Substitute the FONs i/o pins (1,2,5,6) for "pin 12" in the picture.



Here is an example of a solid state relay. It can be purchased directly from Mouser, etc. [\[1\]](#).



GPIO matrix list

```
/proc/GPIO      Pin on LaFonera
0_dir           TP3
1_dir          pin 5 of SW1
2_dir           WLAN LED
3_dir          pin 1 of SW1
4_dir          pin 2 of SW1
5_dir           RESET (!)
6_dir           RESET button
7_dir          pin 6 of SW1
```

So, if you connected your relay to SW1 pin 1 (the 'pin' with the arrow above it in the picture below) on the Fonera, you could run this command in DD-WRT to turn it on and off.:

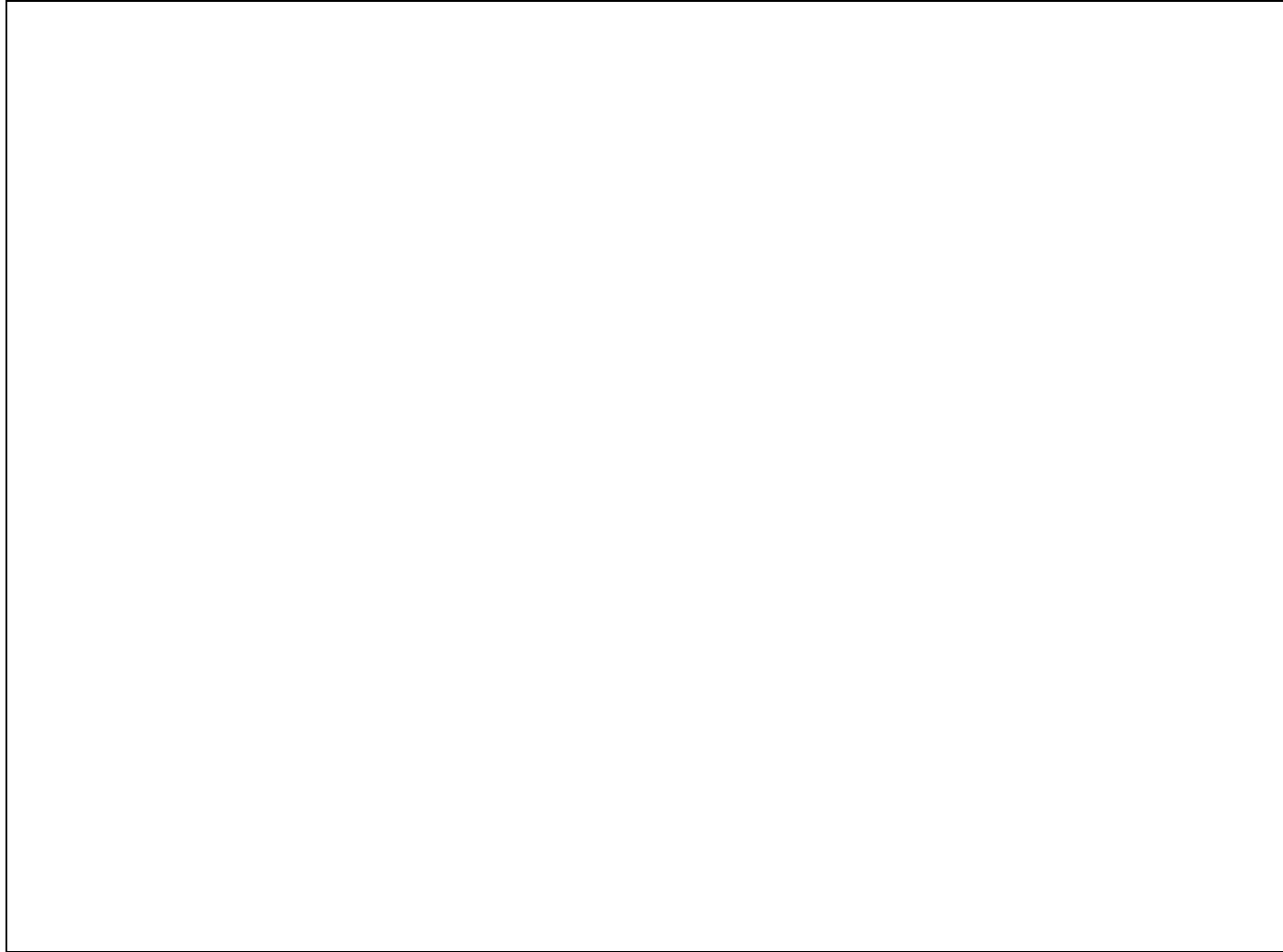
[assuming you have telneted into your DD-WRT running Fonera]

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```
echo 1 > /proc/gpio/3_dir #on
```

```
echo 0 > /proc/gpio/3_dir #off
```

Fonera SW1 pinout



--Sboger