

# **Package WOL**

## **Starting Clients With “Wake On Lan”**

### **Version 3.10.2**

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April 26, 2015

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# 1. Documentation For Package WOL

## 1.1. WOL - Wake On LAN

OPT\_WOL enables fli4l to start remote computers with a Wake on LAN enabled network card by executing 'wol.sh' on the console or via the router's web interface.

For this to work, the network card usually has a small three-wire cable connected to the motherboard, so the network card stays powered from the ATX power supply even when the computer is currently in standby mode.

### 1.1.1. Configuration

**OPT\_WOL** Default Setting: OPT\_WOL='no'

'no' deactivates OPT\_WOL Paket completely. No changes will be made to the fli4l boot medium resp. the archive opt.img.

'yes' activates the package OPT\_WOL.

To power on a client via WOL its MAC address has to be entered in <config-dir>/dns\_dhcp.txt (HOST\_x\_MAC). All computers without MAC address defined are excluded from WOL automatically.

**WOL\_LIST** Configuration is made by black or whitelisting. blacklisting means that all clients on this list are excluded from WOL, whitelisting means that WOL is possible for clients on the list.

Default Setting: WOL\_LIST='black'

Valid values:

- black - means that all clients on this list can not be powered on (woken)
- white - means that all clients on this list can be powered on (woken)

**WOL\_LIST\_N** Default Setting: WOL\_LIST\_N='0'

As the default no client is on the Blacklist, thus each client can be powered via WOL.

**WOL\_LIST\_x** Default Setting: WOL\_LIST\_x=""

Valid values:

- IP\_NET\_1 - All clients reachable over IP\_NET\_x (here IP\_NET\_1)
- @client1 - Name of a client (HOST\_x\_NAME) here 'client1'
- IP-Address - IP of a client (HOST\_x\_IP4 or HOST\_x\_IP6)

Example:

## 1. Documentation For Package WOL

```
WOL_LIST='black'           # black or white listing
WOL_LIST_N='3'             # Number of list entries
WOL_LIST_1='IP_NET_1'      # All clients in Network IP_NET_1
WOL_LIST_2='@client1'      # Client with the name HOST_1_x
WOL_LIST_3='192.168.6.3'   # Client with this IP
```

### 1.1.2. Wake On Lan At Router Boot

**WOL\_BOOT** This setting should only be set to 'yes' if you want to boot a computer in your network with Wake on LAN when starting the router. This configuration is independent of WOL\_LIST, clients not listed in WOL\_LIST may be specified too.

**WOL\_BOOT\_N** Default Setting: WOL\_BOOT\_N='0'

As the default no clients are on the list, thus no clients will be powered via WOL when booting the router.

**WOL\_BOOT\_x** Default Setting: WOL\_BOOT\_x=""

Valid values:

- IP\_NET\_1 - All clients reachable over IP\_NET\_x (here IP\_NET\_1)
- @client1 - Name of a client (HOST\_x\_NAME) here 'client1'
- IP-Address - IP of a client (HOST\_x\_IP4 or HOST\_x\_IP6)

Example:

```
WOL_BOOT='yes'             # install WOL on Boot: yes or no
WOL_BOOT_N='2'             # Number of computers
WOL_BOOT_1='@client1'      # first client
WOL_BOOT_2='192.162.6.17'  # second client
```

### 1.1.3. Usage

Log in to the console directly or via SSH and wake a computer like this: 'wol.sh <computername>' or 'wol.sh <IP-Address>' or 'wol.sh <MAC-Address>'.

Computers not contained in <config-dir>/wol.txt may be woken by 'etherwake <MAC-Address>'.

### Using The Router's Web Interface

**WOL\_HTML** To use the router's web interface WOL\_HTML='yes' has to be set. The Webserver from OPT\_\_HTTPD obviously has to be enabled as well.

Default Setting: WOL\_HTML='no'

# **A. Appendix For Package WOL**

## **A.1. What Is A MAC Address**

The MAC address (<http://en.wikipedia.org/wiki/MAC-Address>) is a 'worldwide' unique ID of a network card.

### **A.1.1. How To Find The MAC Address Of A Network Card?**

- Windows 9x: execute “winipcfg” in a MS-DOS Command Shell
- Windows XP/7: execute “ipconfig /all” in a MS-DOS Command Shell
- Linux: execute “ifconfig” or “ip addr show” on a console

## **A.2. Credits**

- G.Kainzbauer for the original package

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