

Customize Default Values

All of the default values, except the password, are held in file in the */etc/config* folder. However, directly replacing these in the build system is not a good idea as some of them are created or modified during the first boot after flashing.

Instead you use a script that is only run once at first boot and then never again to modify the default settings.

Any files that are placed in the */etc/uci-defaults* folder in the firmware are run once on first boot then deleted. This allows changes to be made just the one time. These files are run in alphabetical order and normally have a name that starts with a number to get the order correct. The order is not usually a problem with setting defaults.

You can use as many scripts as you want to set the defaults but they can also be all in one script. Choice is yours.

Some of the defaults you can set in those scripts are :

- GUI password
- Router IP Address
- TimeZone
- Flow Offloading

The default theme is also set by scripts in this folder but they are specific to the theme and will be looked at later.

Here is a sample script which is named *03-tzone*. It can be named anything you want.

```
#!/bin/sh

#
# set the GUI password to 'admin'
#
router='admin'
echo -e "$router\n$router" | passwd root
```

This will set the password to **admin** at first boot.

Every script must have the shebang (`#!/bin/sh`) in the first line but for the following code fragments we won't show it. You can just drop all of them into the **03-tzone** file.

```
#
# change the router IP Address
#
uci set network.lan.ipaddr="192.168.0.1"
uci commit network
/etc/init.d/network restart
```

Set the IP Address to 192.168.0.1.

```
#
# set default time zone
# zonename and timezone are taken from /etc/config/system
# after you have set it from the GUI
#
# config system
#   option hostname 'R00ter'
#   option timezone 'PST8PDT,M3.2.0,M11.1.0'
#   option zonename 'America/Vancouver'
#
uci set system.@system[0].zonename='America/Los Angeles'
uci set system.@system[0].timezone='PST8PDT,M3.2.0,M11.1.0'
uci set system.@system[0].hostname='CarpsWorld'
uci commit system
/etc/init.d/system restart
```

Set the default TimeZone. You have to set the timezone on a router first and then look at the **/etc/config/system** file to get the correct values. You can also set the Hostname of the router here.

```
#
# turn on Flow offloading
#
uci set firewall.@defaults[-1].flow_offloading='1'
uci set firewall.@defaults[-1].flow_offloading_hw='1'
uci commit firewall
/etc/init.d/firewall restart
```

Turn on Flow Offloading.

There are other default settings that can be set using this method as well. These are the most common. Zerotier can be set by

```
#
# set Zerotier Network ID
#
uci set zerotier.zerotier.join='8056c2e21cexxxx'
uci commit zerotier
/etc/init.d/zerotier restart
```

LEDs can also be set here. You need to know the LED name and the interface that will control it. You can set it up manually and then look in ***/etc/config/system*** to see the values.

```
#
# config led wan1led
#   option name 'WAN1Led'
#   option sysfs 'blue:status'
#   option trigger 'netdev'
#   option dev 'wan1'
#   list mode 'link'
#   list mode 'tx'
#   list mode 'rx'
#
uci set system.wan1led=led
uci set system.wan1led.name="WAN1Led"
uci set system.wan1led.sysfs="blue:status"
uci set system.wan1led.trigger="netdev"
uci set system.wan1led.dev="wan1"
uci set system.wan1led.mode="link tx rx"
uci commit system
/etc/init.d/led restart
```

Themes have their own scripts in the ***uci-defaults*** folder to set them up. They are named

- 30_luci-theme-argon
- 30_luci-theme-material
- 25_luci-theme-tomato

Since these scripts are executed in alphabetical order Material becomes the default theme as it is executed last.

By renaming one of these files to 99 instead of 30 (99_luci-theme-argon) it will be run last and become the default.

In order to not have to modify files in the build system we can just include an extra script like **99_luci-theme-argon** so it gets run last and sets the default theme.

Included in the package are theme selection scripts for each theme that you just include into the **uci-defaults** folder of the firmware to make that them default.

Make sure that any files included in this folder have their Properties set to Execute.