

Executive Summary

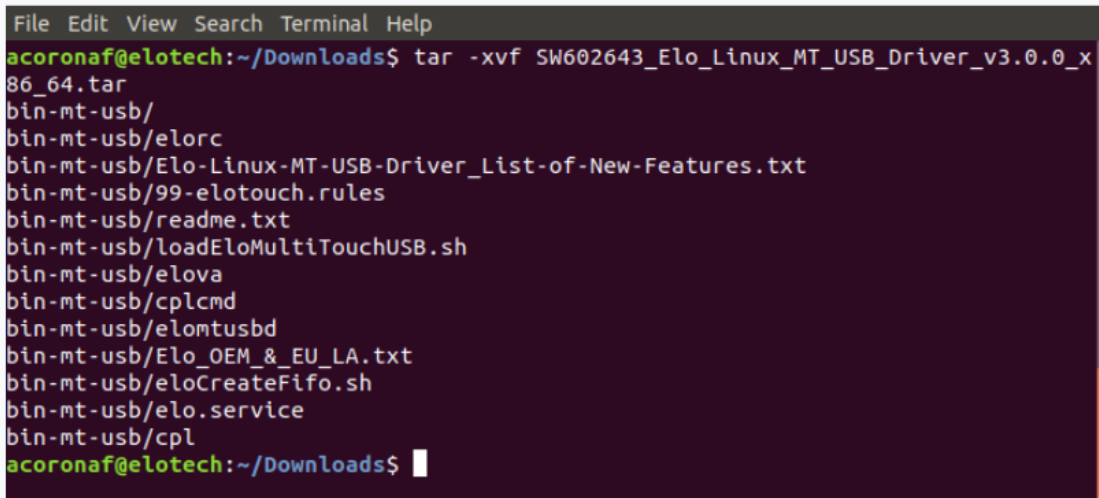
This technical bulletin describes how to install the Elo Multitouch driver on a **sysvinit or Upstart** Linux Operating System.

Steps

1. Download the Multitouch driver into your system, in this example, it is in the Downloads directory. From there un-tar the file with the following commands:

```
$cd Downloads
```

```
$tar -xvf SW602643_Elo_Linux_MT_USB_Driver_v3.0.0_x86_64.tar
```



```
File Edit View Search Terminal Help
acoronaf@elotech:~/Downloads$ tar -xvf SW602643_Elo_Linux_MT_USB_Driver_v3.0.0_x
86_64.tar
bin-mt-usb/
bin-mt-usb/elorc
bin-mt-usb/Elo-Linux-MT-USB-Driver_List-of-New-Features.txt
bin-mt-usb/99-elotouch.rules
bin-mt-usb/readme.txt
bin-mt-usb/loadEloMultiTouchUSB.sh
bin-mt-usb/elova
bin-mt-usb/cplcmd
bin-mt-usb/elomtusb
bin-mt-usb/Elo_OEM_&_EU_LA.txt
bin-mt-usb/eloCreateFifo.sh
bin-mt-usb/elo.service
bin-mt-usb/cpl
acoronaf@elotech:~/Downloads$
```

2. Once it has been decompressed, copy the files and folders to the appropriate location

```
$sudo cp -r ./bin-mt-usb /etc/opt/elo-mt-usb
```

Then change to that directory with:

```
$cd /etc/opt/elo-mt-usb
```

Now change the privileges of the files on the folder to:

```
$sudo chmod 777 *
```

```
$sudo chmod 444 *.txt
```

Copy the file 99-elotouch.rules to /etc/udev/rules.d using

```
$sudo cp /etc/opt/elo-mt-usb/99-elotouch.rules /etc/udev/rules.d
```

As shown on the next image:

```
acoronaf@elotech:~/Downloads$ sudo cp -r ./bin-mt-usb/ /etc/opt/elo-mt-usb
acoronaf@elotech:~/Downloads$ cd /etc/opt/elo-mt-usb
acoronaf@elotech:/etc/opt/elo-mt-usb$ sudo chmod 777 *
acoronaf@elotech:/etc/opt/elo-mt-usb$ sudo chmod 444 *.txt
acoronaf@elotech:/etc/opt/elo-mt-usb$ sudo cp /etc/opt/elo-mt-usb/99-elotouch.rules /etc/udev/rules.d
acoronaf@elotech:/etc/opt/elo-mt-usb$
```

3. Modify (or create) the file rc.local contained on the /etc directory, the file should look like the next image and once completed reboot the computer with

`$sudo shutdown -r now`

```
acoronaf@elotech: /etc/opt/elo-mt-usb
File Edit View Search Terminal Help
acoronaf@elotech:/etc/opt/elo-mt-usb$ cat /etc/rc.local
#!/bin/sh -e
#
# rc.local
#
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
# value on error.
#
# In order to enable or disable this script just change the execution
# bits.
#
# By default this script does nothing.

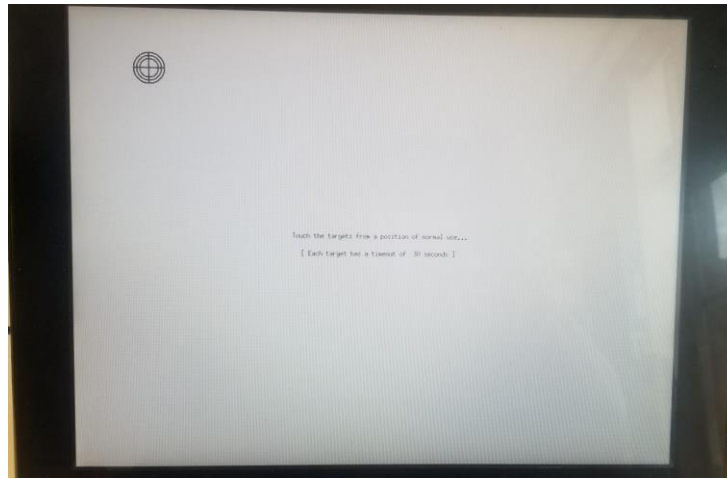
/etc/opt/elo-mt-usb/loadEloMultiTouchUSB.sh
exit 0
acoronaf@elotech:/etc/opt/elo-mt-usb$ sudo shutdown -r now
```

4. Once the reboot is completed, you can move to the folder /etc/opt/Elo-mt-usb to invoke the calibration tool with

`$sudo ./elova`

```
File Edit View Search Terminal Help
acoronaf@elotech:/etc/opt/elo-mt-usb$ sudo ./elova
acoronaf@elotech:/etc/opt/elo-mt-usb$ sudo ./cplcmd
```

- Touch as many targets the tool shows you and with that your unit will be calibrated



- The command, `./cplcmd` is used to set some of the touch parameters, and here is an example of the results of that command:

```

Touchscreen 0 Selected: -----> [ Video Monitor: 0 Port Status:Valid ]

Select from the following options:
=====

Global Options: (Common parameters for all touchscreens)
-----
 1. Enable Beep on Touch
 2. Disable Beep on Touch
 3. Get Beep Parameters
 4. Set Beep Parameters

Device Specific Options:
-----
 5. Get Touchscreen Diagnostics
 6. Enable This Touchscreen
 7. Disable This Touchscreen

Other Options:
-----
 0. Quit Control Panel

Enter choice :5

```

```

Diagnostics data returned from touchscreen:

Touchscreen type:      TouchPro
Connected on:         USB Port
Controller model:     PCAP [13.3.0]
Controller status:    Working properly
Driver version:       Linux MT USB Driver v3.0.0.2

Press Y to continue.

```



7. The next commands helps you to identify the process and the list of the peripherals connected to the USB

```
acoronaf@elotech:/etc/opt/elo-mt-usb$ ps -e |grep elo
1003 ?      00:00:00 kerneloops
1012 ?      00:00:00 kerneloops
1066 ?      00:00:00 elomtusbd
acoronaf@elotech:/etc/opt/elo-mt-usb$ lsusb
Bus 002 Device 002: ID 8087:8000 Intel Corp.
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 002: ID 8087:8008 Intel Corp.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 003 Device 003: ID 2149:3ab8 Advanced Silicon S.A.
Bus 003 Device 002: ID 046d:c52b Logitech, Inc. Unifying Receiver
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
acoronaf@elotech:/etc/opt/elo-mt-usb$
```

If you need additional assistance, please contact us at elotech@elotech.com