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                        Elo Touchscreen Linux Driver - MT-USB

            Intel i686 (32 bit) or AMD64/Intel (64 bit) or ARM v7l (32 bit)

                            List of New Features & Changes

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                                   Version 2.5.0
                                 February 23, 2018
                                Elo Touch Solutions


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Summary of new features & changes in driver v2.5.0:
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   1. Added TouchPro branding for Elo PCAP products.

   2. Added support for TouchPro PCAP 9200xx products with VID:PID
      (0x04e7:0x0090, 0x04e7:0x0091).

   3. Added support for TouchPro PCAP controllers with VID:PID (04e7:080b and
      04e7:080c) and 3243L TouchPro PCAP.

   4. Updated support for latest Intellitouch eSAW 3200XX controller firmware.

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Previous Versions:

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                                   Version 2.4.0
                                   July 26, 2017
                                Elo Touch Solutions


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Summary of new features & changes in driver v2.4.0:
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 1. Added support for 12 touch Intellitouch Pro PCAP products (0x04e7/0x240c).

 2. Added support for 10 & 20 touch IR products (0x1ff7/0x0013).

 3. Added multitouch support for CentOS 6.8 (kernel: 2.6.32-642).

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                                   Version 2.3.1

                                 February 23, 2017
                                Elo Touch Solutions


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Summary of new features & changes in driver v2.3.1:
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  1. Enhanced support for 1523L SAW(2515-07 non HID) touch monitor, ensuring
     touch is aligned out of the box and does not require calibration.



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                            Version 2.3.0
                          January 30, 2017
                         Elo Touch Solutions

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Summary of new features & changes in driver v2.3.0:
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  1. Added support for Elo Intellitouch SAW 3200XX series controllers.

  2. Added support for all Elo Intellitouch Pro PCAP controllers.



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                            Version 2.0.3-b3
                          March 15, 2016
                         Elo Touch Solutions

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Summary of new features & changes in driver v2.0.3-b3 :
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  1. Added capability to report only Single Touch events(primary touch) to a
     multitouch capable Linux kernel (2.6.38 or 3.x.x or 4.x.x) as mouse events.
     The primary touch events are only reported to the system, while the other
     touches are discarded. Enable this capability by uncommenting the code that
     defines FORCE_SINGLE_TOUCH in elo_mt_input.c kernel module source code and
     generate and install a kernel module.

     This single touch reporting feature is very useful if some components in
     the software stack do not process multitouch events properly or the
     applications do not want multitouch events/gestures or to ensure
     compatibility with legacy applications that require mouse events.

  2. Added support for Intellitouch Pro PCAP products 1940L(0x04e7/0x0064),
     3201L(0x04e7/0x0067), 3243L(0x04e7/0x240b), PCAP controller(0x04e7/0x2410)
     and other similar products.

  3. The USB driver log file(EloUsbErrorLog.txt) that was previously located in
     the driver folder (/etc/opt/elo-mt-usb/) has been moved to
     /var/log/elo-mt-usb/ folder.

  4. The USB driver configuration file(MT-USBConfigData) that was previously
     located in the driver folder (/etc/opt/elo-mt-usb/) has been moved to
     /etc/opt/elo-mt-usb/ConfigData folder.
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                              Version 2.0.3-b2
                             February 19, 2016
                             Elo Touch Solutions

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Note for ARM Platforms:
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This touchscreen driver ported for ARM v7l platform requires a Linux
distribution with Xwindows (example: Ubuntu 14.04.3 LTS ARM version). The driver
was built and tested using ODROID-XU4 ARM board running Lbuntu 14.04.3 LTS
(Kernel: 3.10.92+). The driver package already contains a pre-built kernel
module elo_mt_input_mod.ko in the driver main folder for Linux kernel 3.10.92+
(ARM v7l) that can be used directly for driver installation.


Summary of new features & changes in driver v2.0.3-b2 :
-------------------------------------------------------

   1. Added capability to report only Single Touch events(primary touch) to a
      multitouch capable Linux kernel (2.6.38 or 3.x.x or 4.x.x) as mouse events.
      The primary touch events are only reported to the system, while the other
      touches are discarded. Enable this capability by uncommenting the code that
      defines FORCE_SINGLE_TOUCH in elo_mt_input.c kernel module source code and
      generate and install a kernel module.

      This single touch reporting feature is very useful if some components in
      the software stack do not process multitouch events properly or the
      applications do not want multitouch events/gestures or to ensure
      compatibility with legacy applications that require mouse events.

   2. Added support for Intellitouch Pro PCAP products 1940L(0x04e7/0x0064),
      3201L(0x04e7/0x0067) and other similar products.



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                               Version 2.0.2
                              August 28, 2015
                             Elo Touch Solutions

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Summary of new features & changes in driver v2.0.2 :
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   1. Added single touch support for Accutouch and Intellitouch products based
      on the 2216, 2218, 2700 and 2701 single touch controllers.

   2. Removed the requirement for controller serial number matching
      to retrieve data from configuration file.

   3. Fixed an issue in the calibration scheme where untouches used for computing
      the calibration parameters were not be reported to Linux kernel. This could
      potentially result in unwanted behavior due to missing untouches in the
      touch input sequence.

   4. Fixed issues in the graphic and commandline control panel utilities to
      display the X-Windows Video Screen number and Controller firmware version
      number properly.

   5. Added elo.service systemd startup script and instructions to enable elo
      driver startup on Linux distributions with systemd init system.
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driver startup on Linux distributions with systemd init system.

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                              Version 2.0.0
                            February 20, 2014
                           Elo Touch Solutions

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Summary of new features & changes in driver v2.0.0 :
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   1. Added support for Intellitouch Plus and iTouch Plus products that provide
      dual touch capability based on the 2515-07(non HID), 2521(HID) and
      2515-00(HID) controllers.

   2. Added support for various multitouch PCAP products (2 touch, 4 touch and
      10 touch controllers).

   3. Added commandline and GUI control panel utilities (cplcmd and cpl).

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                              Version 1.0.0
                            August 26, 2013
                           Elo Touch Solutions

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Summary of new features & changes in driver v1.0.0 :
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   1. Added support for Linux Multi Touch protocol to send multitouch events to
      the Linux kernel(2.6.38 or 3.x.x). The primary touch events are used to
      generate pointer events(emulation) to work with existing application.

   2. Added support for older Linux kernels(2.6.x) that do not support the new
      Linux Multi Touch protocol, to send single touch events instead. The
      primary touch events are only reported to the system, while the other
      touches are discarded.

   3. Added support for Intellitouch Plus and iTouch Plus products that provide
      dual touch capability based on the 2515-07 controller.

Known Issues in driver v1.0.0 :
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   1. In some older Linux distributions(example: SLES 11, kernel: 2.6.27.x) the
      pointer is not aligned properly with the touch location, even after
      calibration.

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