

Elo Touch Solutions Multi-touch Driver Release Notes

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1. Special Notes

- For 2521 (PID 0x27) controllers with firmware versions older than 6.2, sometimes the touchscreen does not respond to touches in either the upper or lower 1-inch region of the monitor. In that case, the monitor needs to be power cycled, then re-calibrated to restore normal touch. If power cycling the monitor is not working, the utility EloCalMgr.exe (located in the target installation folder) can be used to reset the controller.
- In forced mouse mode, calibration on spanned display mode is not supported.
- On Windows 10 with multiple touch monitors, if a touch-controller does not have a unique serial number, the touch-to-display mapping may be lost after swapping its USB port. When this happens, please reboot or re-calibrate the monitor.

2. Multi-touch package 6.x APIs vs. single-touch 5.x APIs

- Applications written with Elo's single-touch 5.x APIs will not work with multi-touch 6.x installation. These applications need to be updated (re-compile and link) in order to work with multi-touch package 6.x.

3. History of Changes

v3.0.1

- EloMtApi: pre-cal not committed to NVRam.
- USB driver: pivot test missing drawing segments
- EloConfig.exe: added command line parameter "/align" to allow video alignment.

v3.0.2

- Write NVRam is turned off by default (EloOptions.ini).

v4.0.1

- Support motherboard beep on Windows 7 (both 32-bit and 64-bit systems).
- Support optical touch screens: 0x202E-0x06 (dual-touch) and 0x04E7-0x80 (four-touches).
- Sending user defined Smartset commands (in EloOptions.ini) at system startup or driver loading.
- Utility to allow user to define touch enabled areas (EloTouchZones.exe).
- Position log files in "Elo Touch Systems" folder under "ProgramData".

- During calibration, once a monitor is touched, the session should be completed on that monitor.
- Incorrect Windows Monitor number showed in Property page if the system has unconnected video port.
- IT2701 sleep/resume fails about 20% of times.
- EloConfig unwanted popup at system startup.
- Support pCap touch screen 0xEEF-7200.

v4.0.2

- Serial driver: New calibration is not taking effect.
- Serial driver: After reboot, previous calibration is not applied.
- Serial driver: Pre-install either legacy serial driver or multi-touch serial driver (not both).

v4.0.3

- Correct the multi touch mode in Lumio/Optical monitor.
- Added Windows 8 support.
- Correct SmartSet timing issue.

v4.5.0

- Provide touch and video functions for IDS Suite.
- Provide option to limit number of touches to one touch set the value of "EnableOneTouch" under section "Setup Options" in EloOptions.ini. Users can use this feature to block multi-touch gestures.
- Support 6-touch Optical controller.
- Support new HID controller (PID 0x27).
- Bug fix: COACH-3 Calibration window not exiting at end of the calibration session.
- Provide sample program "EloDrawMultiMon.exe" utilizing new IOCTL and Elo API to demonstrate simultaneous drawing on multiple Elo touch screens.
- USB (0x26) better rejection for zero bezel frame touch.
- Send user defined Smartset commands in EloOptions.ini when USB driver loads.
- Updated Elo logo, icon and user license agreement.

v6.0.0

- Support Windows XP (32bit with SP3).
- New calibration approach (No longer need the HidCal utility. Original PreCal implementations removed).
- Auto mapping touch to display on Win7/8.
- Provide options for selecting different touch mode.
- Updated EloPrecal debugging/testing utility.
- Reduced package size.

v6.1.0

- Calibration with XY swapped/rotated.
- MS logo warning on XP during setup.

- Reboot after installation/uninstallation is no longer required.
- Calibration logging feature.
- 6-Touch IR support.
- Auto sizing bug fix (wrong increment cycle count).
- Enable controller's mouse mode on XP.
- Auto mapping of touch-to-display for Windows 8 and Windows 8.1.
- Alternative approach for calibration.

v6.2.0

- USB driver not loaded unless the cable is re-plugged or system is rebooted.
- Provide user options (EloOptions.ini) to use driver calibration instead of controller calibration.
- Correct the pCap firmware version shown in the property page.
- Support both new and old firmware for Optical touch monitors.
- Provide options to limit number of touches (please see Readme).
- IDS improvements: slow response, incorrect initial touch status, incorrect power status report.

v6.2.1

- Check the 2521 controller firmware version then apply onboard calibration if it's 6.2 or newer.
- Need to retrieve controller firmware version from the iProduct field for certain controllers.
- IDS: set/get monitor power status using Elo VCP codes.

v6.3.0

- Border touch warning for 2515-07 monitors.
- Calibration of multiple monitors in spanned display mode.
- Bug fix where for certain touch monitors (IntelliTouch 2500S / S-Cap 5020), the user is continuously being prompted to calibrate their touch monitor(s) after reboot.
- Bug fix for not mapping touch to display after calibration is performed in Windows 8.1.
- Bug fix for partially removing Elo files after user confirmed not to proceed with uninstallation.

v6.4.0

- Mouse mode support on all platforms.
- Edge acceleration value changes after calibration.
- Lost touch in ESD test.
- Touch sensitivity options for 2701, 2521 and 2515-07.
- Touch visual feedback for calibration testing.
- Hide mouse cursor (system wide).
- Option to enforce single-touch.
- EloDriverDefaults.exe (added 2 more parameters)
- Calibration issue on IDS monitors (resolution not reported correctly, touch targets off position).

- Support additional IntelliTouch Pro monitors.
- Adopt new product names IntelliTouch and IntelliTouch Pro.
- Elo API: Get touch point returns either raw or calibrated points.
- Missing EloService during silent installation.
- EloConfig UI shows garbage text in some systems.
- Calibration on spanned display with rotation.
- Avoid multi-instance of EloConfig.exe.
- UI Constraints in CommonSetting Dialog

v6.4.1

- User's choice for "Single Touch Mode" is not saved between reboots.
- Touch count was incorrectly limited to 4 in some Optical monitors.
- Set touch limit did not work correctly for certain pCap.
- Beep settings and HidCursor did not retain the states between sessions.
- Support more pCaps.
- Improve double-click performance.
- Right-click and hold to bring up context menu.

v6.4.2

- Fix the occasional setup failure especially with some fresh.
- Certain IR monitors lost touch after 3-point calibration.

v6.4.3

- Support 10-touch pCap (PID 0x212C).
- Support 10-touch IR (PID 0x13).
- Bug fix for EloDriverDefaults.exe.

v6.4.4 beta

- Fix "EnableOneTouch" using EloSetup and EloOptions.ini.
- During setup, it takes too long before the license dialog box shows up.
- EloDriverDefaults has not been fully tested for this beta release.

v6.5.0 (04-13-2015 v6.5.0.23)

- Configure Beep, Touch mode and Enforce single touch as per-device settings.
- Double-click settings (speed and size).
- Right-click button (in mouse mode only).
- Per-monitor touch property settings using EloOptions.ini and EloDriverDefaults.
- Support pCap PID 0x67.
- Setup supports more user defined settings under [Setup Options] in EloOptions.ini.

v6.5.0 b35 (04-29-2015)

- Incorrect prompt for re-calibration with IR monitors.
- Fix calibration issue when IRAutoCalibration is enabled on system with IR and pCap.
- Connected serial touch devices not installed during silent installation.
- Installation on POSReady 2009 prompting for mouse drivers.

v6.6.0 RC7 (10-20-2015, custom release)

- Custom touch-to-display mapping for pCap and IR (after install).
- Right-click button sometimes stuck with the "On" state.
- Spanned mode setup dialog box shows up unexpected.
- Prompt for calibration when invoking the Right-click button when the monitor is calibrated.
- IR calibration data in EloOptions.ini not get applied during calibration.
- Motherboard beep on Win8.1.
- Settings defined under [Setup Options] in EloOptions.ini will apply to new devices.
- EloTouchZone shows blank dialog box with certain system locales.
- EloWritePRM bug fix.

v6.7.0 (10-02-2015)

- Supporting more pCaps.
- API bug fix: EnableTouch, Get/Set Max Touch.
- EloTouchZone show blank UI for certain system locales.

v6.8.0 (02-29-2016)

- Support new IntelliTouch controller (PID 0x28).
- Replaced PID 0x214E with 0x8A6E.
- Verify NVRam Cal data writing during calibration.
- Use 0x4E7/0x2410 to replace PIDs 0x9570 and 0x991C.
- Rotation for one-touch pCap.
- No longer prompt for calibration at end of Setup.
- AccuTouch issues: prompt calibration on reboot, failed to calibrate, FW version missing in 32 bit OS.
- Unexpected prompt for calibration on reboot when a calibrated monitor is connected to a new system.
- Sometimes during calibration, overlapped dialog boxes were observed.
- Fix calibration failure on 2500U.
- On some systems, right-click context manual pops up when resumed from S3/S4 modes.
- Added ini option **AutoInvokeCalibration** to enable/disable auto invoking calibration.

v6.8.1 (02-23-2016, custom release)

- Issues when install as mouse device but previous uninstall did not restore inbox HID mouse state.

v6.8.2 (05-06-2016)

- EloConfig property page: sometimes two mouse mode checkboxes can be selected.
- Support onboard calibration for pid 0x28's emulation mode 2521.
- Indicate pid 0x28 emulation mode in property page with "(e)".
- During calibration cursor should not show up.
- Fix for UTLIRDiag where beep setting back to default at start of the utility.
- Rotate and calibration issue if installed as mouse device for pid x28 or its 2521 emulation.
- No longer use Smartset commands for retrieving controller serial numbers.
- Automatic touch to display mapping for pCap 0x8A6E.
- During calibration, the "Retry" does not work if mouse click mode is Click-on-Touch.

v6.8.3 build9 (07-12-2016)

- When serial monitors are installed as mouse device, touch mapped to wrong monitor after calibration.
- Right-click context menu does not pop up reliably on certain pCap monitors.
- Touch still get registered if quick draw through Elo Touch Zone where touch is disabled.
- Lock certain EloConfig UI options by using EloOptions.ini entry "LockedConfiguration".
- Retrieve certain controller's serial numbers from their customized configuration blocks (PID 0x212C and 0x8A6E).
- When Cursor Edge Acceleration is enabled, mouse pointer position is off from dragging finger.

v6.8.3 build10 (07-14-2016)

- Re-built and re-WHQLed.

v6.8.4 (07-21-2016)

- No reboot needed for serial driver installation.
- Reading controller (PID 0x212C and 0x8A6E) SNs.
- Reduce calibration startup time (EloConfig /align).

v6.8.5 (07-25-2016)

- Fix Elo API for setting beep options.

v6.9.0 (09-14-2016)

- IR failed beam monitoring.
- EloDriverDefault fix for ini's monitor sections.

