



Subject: Touch Driver 5.4.6 Release

Overview

An updated ELO Touch Driver (v5.4.6) has been validated and released on FFNA products (Windows based). This new driver supports the following display models:

- DV15 Resistive Touch
- D22 Resistive Touch
- D25 IR & Resistive Touch
- TeamPoS 3000 XT with IR & Resistive Touch

Changes

There are many enhancements and updates in this new driver, the major ones are listed below. A Release Notes document is included with the file update with all details (from FFNA sources).

- Calibration Data stored in NVRAM
 - This driver now allows storage of the Calibration Data in the NVRAM within the display while the older drivers store this data in the Windows Registry only.
 - The use of NVRAM is NOT enabled by default. A document is included in the file to detail how to enable this feature (extract included below).
- USB Status Check Feature
 - It was found that the IR Touch can become unresponsive after extended periods of time in some environments. This feature periodically checks the USB Touch controller status and restore it if lost.
 - The USB Status Check Feature is NOT enabled by default. A document is included in the file to detail how to enable this feature (extract included below). If used, a frequency of 10 seconds is recommended.

Availability

This updated driver is available at the following locations.

Support & Download Web site (no log-in required)

<http://www.fujitsu.com/us/services/retailing/support/drivers/teamposdevices/>

FTP (log-in required) - File Name: ELOTouch_5.4.6.zip

<ftp://ftp.ftxs.fujitsu.com/Pos/PosSustaining/Retail/Displays/>

Installation

- If installing on a system with older versions of the Touch Driver, the current driver must be uninstalled prior to installing this new Driver.
- To install the new driver, expand the downloaded .zip file into a temporary location. Then run SW601854_EloTouch_5.4.6.exe which expands the driver install files a in folder \Program Files\Temp\TETouch_5.4.6 and then run setup.
- Refer to the subfolders under the "FFNA Patches and Additions" for additional information and features,

Impact

- Production This driver will be include in the next image updates.
- Installed Units Customer validation and request typically required. Time to install, 3-5 minutes.
- Repair Center None.
- Service Spares None.

INQUIRIES TO:		DATE
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Calibration Data in NVRAM

Background

The Fujitsu Displays listed above are equipped with NVRam to store calibration data. With the NVRam option enabled the calibration data is written to the touch device when the device is calibrated. On system start, if the NVRam option is enabled, the calibration data is read from the device and activated by the driver.

Note: The NVRam can also be enabled at install time by using the EloSetup.exe command line parameter **/PreCal**, but this document only applies to a change after the driver has been installed.

Configuration

Check the version of driver installed on the PC system. Elo driver versions 5.4.6 (or later) will have support for a variable that controls the NVRam. Earlier versions of the driver will not support this.

Invoke EloDriverDefaults.exe from a command prompt with the **-r** command line parameter to cause the installed driver to read the registry data and write it into the **EloOptions.ini** file:

(Start -> Run... cmd)

```
C:\>cd "\Program Files\Elo TouchSystems"
```

```
C:\Program Files\Elo TouchSystems>elodriverdefaults -r  
Successfully copied driver defaults to Registry  
Successfully read driver defaults from Registry to EloOptions.ini
```

Edit the file **EloOptions.ini** to change the variable **WriteNVRam** to = 1 in the [AdminSettings] section. The file is located in the default installation directory C:\Program Files\Elo TouchSystems. Here is what that part of the [AdminSettings] section looks like after changing the variable:

```
;EnableIRPowerManagement=0  
  
; Read and write calibration data from NVRAM  
WriteNVRam=1  
EnableIRPowerManagement=0
```

Invoke EloDriverDefaults.exe from a command prompt with the **-w** command line parameter to cause the installed driver to write the .ini data into the registry:

```
C:\Program Files\Elo TouchSystems>elodriverdefaults -w  
Successfully wrote driver defaults from EloOptions.ini to Registry  
Successfully applied driver defaults to device Registry  
Global Registry keys are in effect!  
Successfully updated EloTTray setting.  
Screen Index = 0 DRAGDELAYDATA has been successfully updated!  
Screen Index = 0 SOUNDADATA has been successfully updated!  
Screen Index = 0 RIGHTBUTTON data has been successfully updated  
Successfully applied driver defaults!
```

The **-r** option will read the values from the registry and write them to the .ini file.

The **-w** option will write the .ini values into the Windows Registry.



USB Status Check

Background

IR touch was found to be unresponsive after extended periods of operation. An investigation uncovered a loss of USB communication at the time of lost touch. To remedy this issue, an option was added to the Elo driver that will periodically check the status of the controller over USB and if the connection was lost, it would be restored.

Configuration

Check the version of driver installed on the PC system. ELO driver versions 5.3.5 and .5.4.6 (or later) will have support for a variable that controls the USB check interval. Earlier versions of the driver will not support this.

Edit the file `EloOptions.ini` to add the variable `UsbPipeResetInterval` at the end of the User Defined Data. The file is located in the default installation directory `C:\Program Files\Elo TouchSystems`. Here is what the User Defined Data section looks like after adding the variable:

```
[UserDefinedData]
; Beep on touch: 0 - > Off
; Beep on touch: 1 - > On
BeepFlag=1
; UseExternalSpeaker: 0 - > Motherboard Beeper
; 1 - > External Speaker
UseExternalSpeaker=0
UsbPipeResetInterval = 10
```

The value assigned to `UsbPipeResetInterval`, 10 in the example, is the number of seconds between periodic checks of the USB status. A value of 10 seconds is recommended.

After modifying the `EloOptions.ini` file, invoke `EloDriverDefaults.exe` from a DOS command prompt to cause the installed driver to re-read the `.ini` file:

(Start -> Run... cmd)

```
C:\>cd "\Program Files\Elo TouchSystems"
```

```
C:\Program Files\Elo TouchSystems>elodriverdefaults -r
Successfully copied driver defaults to Registry
Successfully read driver defaults from Registry to EloOptions.ini
```

```
C:\Program Files\Elo TouchSystems>elodriverdefaults -w
Successfully wrote driver defaults from EloOptions.ini to Registry
Successfully applied driver defaults to device Registry
Global Registry keys are in effect!
Successfully updated EloTTray setting.
Screen Index = 0 DRAGDELAYDATA has been successfully updated!
Screen Index = 0 SOUNDADATA has been successfully updated!
Screen Index = 0 RIGHTBUTTON data has been successfully updated
Successfully applied driver defaults!
```

The `-r` option will read the values from the registry and write them to the `.ini` file. The `-w` option will write the `.ini` values into the Windows Registry.

The monitor touch connection will need to be unplugged and reconnected to establish the new configuration.