# ēlo



**Application Note** 

## OPOS driver configuration for the Elo<sup>®</sup> Tablet MSR

ESxxxxx Rev A

#### Change History

Rev.	Description of Change	Release Date	Changed By
А			

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## 1. Introduction

This procedure covers the steps to ensure that the Tablet MSR is properly configured for use with the MSR OPOS driver.

The Tablet must be running firmware version 1.29 or later.

Tablet MSR OPOS driver: 80096810-001\_SecureMag\_RS232\_OPOS\_Driver\_A.zip

Tablet MSR OPOS demo/test utility: 80096809-002\_SecureMag\_OPOS\_DemoV6\_11\_A.zip

These files may be downloaded from idtechproducts.com or requested from Elo tech support.

If you still have questions after reading this document, please contact an Elo Touch technical representative or customer service.

Visit http://www.elotouch.com/Support/TechnicalSupport/default.asp for technical support.

Refer to the last page of this user manual for Elo contact information worldwide.

### 2. Check the firmware version

The Tablet must be running firmware version 1.29 or later.

1. Click Start, Control Panel and open the InfoAbout item.

0 AboutInf	0		- • ×
Softw	are Info Hardware Info	ScreenRotation	
	OS Version	1.16	
	BIOS Version	V019	
Ма	inBoard EC Version	1.29	
Do	ocking EC Version	1.26	]
Re	fresh		

If the MainBoard EC version is not 1.29 or later, proceed with the firmware update. The firmware update procedure is available in the Technical Support section at elotouch.com

## 3. Set up MSR and Verify MSR functionality

1. Verify MSR setting and functionality using the Elo Diagnostic Suite

• Click Start, open Control Panel, Open Elo Diagnostic Suite

el	]	Dash	Dashboard		
	Front Camera	Concerne Camera	● À ● LEDs	<b>i</b> Systom Info	
	MSR	Dock Status	N)) NFC	Smart Card	
	<b>P</b> Ambient Light		J Temp Sensors	Rotation Off	

- Click the MSR item
- Click the Virtual COM Port Mode radio button

Special 3 Track Mo	ode Enabled
Data:	Length
Track 1:	
Track 2:	
Track 3:	
	~
Virtual COM Port Mode	mulation Mode Clear

- Swipe a card and verify that the data is displayed in the Raw Data window
- Click the Dashboard button at the left
- Click the Exit button at the upper right

## 4. Install the Tablet MSR OPOS driver

- 1. Copy the 80096810-001\_SecureMag\_RS232\_OPOS\_Driver\_A.zip file to the Tablet's Desktop or insert a USB stick that has the driver
- 2. Double-click the driver file
  - A folder named 80096810-001\_SecureMag\_RS232\_OPOS\_Driver is displayed
  - Open the folder, then double-click the second Setup file (green & white icon)
  - "Do you want to allow ...": click Yes
  - Click through the Next buttons and answer Yes to the license agreement
  - When you click Finish, the Tablet will reboot

## 5. Modify the Registry Entries for the MSR

- 1. Click Start the cursor appears in the Windows Search box
- 2. Type regedit regedit.exe appears at the top of the search box
- 3. Click regedit.exe
  - "Do you want to allow ..."
  - Click Yes
  - The registry editor opens
- 4. Double-click HKEY\_LOCAL\_MACHINE
- 5. Double-click SOFTWARE
- 6. Double-click OLEforRetail
- 7. Double-click ServiceOPOS
- 8. Double-click MSR
- 9. Double-click IDTECH\_SECUREMAG\_RS232
- 10. Double-click CONNECTOR
  - Three keys are displayed
  - If the COM key name does not say COM3, right-click it, select Rename and rename it to COM3
  - If the data for the CONNECTOR key does not start with COM3, change the data i. Double-click the CONNECTOR key
    - ii. Position the cursor in the COM part of the data and change it to read COM3
      - 1. Should read COM3/baud=9600/parity=N/stop=1/data=8
  - 11. Repeat for the keys under \IDTECH\_SECUREMAG\_USBCDC\CONNECTOR
    - Modifying the keys for both entries helps to reduce user errors

#### 6. Test/Verification

- 1. Copy the 80096809-002\_SecureMag\_OPOS\_DemoV6\_11\_A.zip file to the Tablet's Desktop or insert a USB stick that has the demo
- 2. Double-click the demo file
  - A folder named 80096809-002\_SecureMag\_ OPOS\_Demo\_V6\_11\_A.zip opens
  - Double-click the second Setup file (green & white icon)
  - "Do you want to allow ...": click Yes
  - Click through the Next buttons and answer Yes to the license agreement
  - Click the Finish button
  - Close the folder
- 3. Click Start
  - MSR OPOS Test Program.exe is available in the File list
  - Click to execute

SR OPOS Test Program6.11		
VSR Method:	MSR Properties:	
Open	Description Control Track Control Track Da	ata   Parsed Data   Card Data   Encryption   Au
Claim	Claimed CapPowerReporting     AutoDisable	
CheckHealth	DeviceEnabled     PowerNotify:     FreezeEvents     DeviceEnabled	. ▼
ClearInputProperties	PowerState	ł: [
ClearInput	EncodingMaxLength: State TracksTowrite: DataCour	e: CLOSED
WriteTracks	CheckHealthText:	
Release		
Close		
est Report:		
Class Danast	ave Report	Evit

Troubleshooting Guide: Elo<sup>®</sup> Tablet ESXXXXXX Rev A, Page 9 of 12 4. Select IDTECH\_SECUREMAG\_RS232-RS232 from the drop-down list

MSR Method:	MSR Properties:	
Open	Description Control Track Control Track DEPT_USBHI	D - USB HID - RS232
Claim	□ Claimed CapPowerRep HPUSBMiniMSR -	ISB CDC
	AutoDisable     IDTECH_SECUREMAG_PS/	2KB - PS/2 KB
CheckHealth	DeviceEnabled PowerNIDTECH_SECUREMAG_US	3KB - USB HID KB 3HID - USB HID
	FreezeEvents     IDTECH_SECUREMAG_US	BCDC-USB CDC
ClearInputProperties	DataEventEnabled     DataEventEnabled     DataEventEnabled     DataEventEnabled     DTECH VALUEMAG_US2H	32 - PS/2 KB (B - PS/2 KB (B - USB HID KB
ClearInput	EncodingMaxLength: IDTECH_VALUEMAG_USBH IDTECH_VALUEMAG_USBC	HD-USBHD C-USBCDC
	TracksTowrite: Data Data Data Data Data Data Data Dat	2 - RS232 2 KB
WriteTracks		HID KB
Release		
Close		
Test Report:		

5. To make the entire Demo window visible,:

- ALT-TAB to the Tablet's Desktop
- Right-click the Desktop
- Click Screen Resolution
- Click Make text and other items larger or smaller
- Click Smaller 100%
- Close the Display window

6. Return to the OPOS Demo window and click the Open button

- "Succeeded!" messages should appear in the Test Report section at the bottom
  - i. If a Failed message is displayed, try rebooting the Tablet
  - ii. If Failed persists, see the Troubleshooting section
- Click the Claim button; a Succeeded message should be generated
- Click the Device Enabled button
- Swipe a card
  - i. Track data length messages should be displayed
  - ii. This verifies the OPOS driver functionality

## 7. Troubleshooting

- 1. For no MSR response in the Demo program, try a reboot first
- 2. Ensure that the firmware revision is as stated in the Introduction section
- 3. If still no response, test using the Elo Diagnostic Suite as in section 3.
  - Be sure that it is set for Virtual COM Port Mode
- 4. If the MSR works OK using Elo Diagnostic Suite, check the registry settings as in section 5. The registry settings for both SECUREMAG Connector items should be as below.

📸 Registry Editor							
Eile Edit View Favorites Help							
Elie       Edit       Yiew       Favorites       Help         Computer	Name (Default) COM3 CONNECTOR	Type REG_SZ REG_SZ REG_SZ	Data (value not set) serialconn.dll COM3/baud=9600/parity=N/stop=1/data=8				
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\OLEforRetail\ServiceOPOS\MSR\IDTECH_SECUREMAG_USBCDC\CONNECTOR							

5. If all the above is correct, try closing and reopening the Demo

6. Be sure to use the proper sequence when running the demo:

- Click Open first
- Claim second
- Click Device Enabled third
- Swipe card fourth
- 7. The proper Release sequence is Release, then Close

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To find out more about the extensive range of Elo touch solutions, visit our website at www.elotouch.com, or simply call the office nearest you:

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