Elo Touch Systems ©copyright 2004 Windows CE Smart Monitor Setup Version 3.3

Step 1. If you haven't already installed Platform Builder 4.2 do so now. Install x86 processor support. If you need help see PlatformBuilder_Help.rtf on this CD

Step 2. Copy from the CD the directory Elo_SmartMonitor_BSP into the WINCE420 directory. Install the drivers indicated below.

Elo_SmartMonitor_BSP			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> o	ols <u>H</u> elp		
🚱 Back 🝷 🕥 🕤 🏂 🄎	🕽 Search 🛛 🍋 Fol	ders 🔯 🎯	× 9 💷
Address 🛅 Elo_SmartMonitor_BSP			👻 ラ Go
Name 🔺	Size	Туре	Date Modified
🚞 audiouam3058 v1.302a.net		File Folder	8/18/2004 8:39 AM
DDrawProSavage V1.52A.NET42		File Folder	8/18/2004 8:39 AM
🚞 EloTouchUSB		File Folder	8/18/2004 8:39 AM
🛅 fet3065v2.643a.net42		File Folder	8/18/2004 8:39 AM
🚞 FirsTouch		File Folder	8/18/2004 8:39 AM
🛅 floppydisk v2.002a.net42		File Folder	8/18/2004 8:39 AM
🛅 FreeBootv1.54a		File Folder	8/18/2004 8:39 AM
LARGEKB		File Folder	8/18/2004 8:39 AM
DCMCIA		File Folder	8/18/2004 8:39 AM
DROJECT		File Folder	8/18/2004 8:39 AM
CIPWM v2.311.net		File Folder	8/18/2004 8:39 AM
🚞 SerSplat		File Folder	8/18/2004 8:39 AM
🚞 SipLaunch		File Folder	8/18/2004 8:39 AM
🚞 viaatapi v1.11a.net42		File Folder	8/18/2004 8:39 AM
CVIABSP v1.302b.NET42		File Folder	8/18/2004 8:39 AM
🖬 Elo.dat	1 KB	DAT File	3/30/2004 9:06 AM
🖬 Elo.str	1 KB	STR File	3/30/2004 8:14 AM
🔟 NK.bin	19,448 KB	BIN File	4/2/2004 6:47 AM
<	Ш)>

Open the folder named VIABSP v1,302a.NET42

CVIABSP v1.302b.NET42			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites (<u>T</u> ools <u>H</u> elp		27
🚱 Back 🝷 🕥 🕤 🏂 🍃	🔎 Search 🛛 🍋 F	olders 🔯 🏂	× 🍤 💷 ·
Address 🛅 VIABSP v1.302b.NET4	12		👻 ラ Go
Name 🔺	Size	Туре	Date Modified
🖻 eboot.bin	92 KB	BIN File	3/17/2004 8:17 AM
Toadcepc.exe	96 KB	Application	3/17/2004 8:17 AM
🗐 README.TXT	13 KB	Text Document	3/17/2004 8:17 AM
setup.EXE	410 KB	Application	3/17/2004 8:17 AM
🔀 VIACEPC_4_ELO.msi	3,021 KB	Windows Installer P	8/18/2004 9:53 AM
🔂 VIACEPC_Via.msi	1,227 KB	Windows Installer P	3/17/2004 8:17 AM

Double click on VIACEPC_4_ELO.msi

🕲 Windows CE Platform Builder Feature Import		
	Welcome to the VIA Windows CE Platform Builder Feature Import Wizard.	
The Import Wizard will install Windows CE Platform Builder Feature on your computer. Click Next to continue or Cancel to exit the Import Wizard.		
	< <u>B</u> ack <u>N</u> ext > Cancel	

Click on Next

🕏 Windows CE Platform Builder Feature Import
Ready to Install The Import Wizard is ready to begin the installation.
Click Install to begin the installation,Click Cancel to exit the wizard,
< <u>B</u> ack Install Cancel

Click on Install

indows CE Platform Builder Feature Import	
Installing Windows (CE Platform Builder Feature
Please wait while th This may take seve	ne Import Wizard installs Windows CE Platform Builder Feature. eral minutes.
Status:)
	< <u>B</u> ack <u>N</u> ext > Cancel



Click on Finish.

Start Platform Builder. From the start screen select New Platform or Close the start screen and then select from the File menu New Platform.

New Platform Wizard - Step 1			
	Welcome to the New Platform Wizard		
	This wizard guides you through the process of creating a new Windows CE .NET-based platform.		
	A platform is a specific implementation of the Windows CE operating system (OS) on a target device. A platform consists of an OS image and a board support package (BSP), which includes an OEM adaptation layer (OAL) and device drivers.		
	This wizard helps you:		
	 Select a BSP Select a platform configuration Select a configuration variant Select additional features based on your configuration choices 		
	To continue, click Next.		
0	< <u>B</u> ack Next > Finish Cancel		

Click next

New Platform Wizard - Step 2	
Board Support Packages (BSPs) A BSP Catalog feature (.cec) file contains the do that are added to your platform when your platfo	efault set of device drivers
Available BSPs:	
CEPC: X86 EMULATOR: X86	Select one or more BSPs for your new platform.
■NATIONAL GEODE: X86 ▼VIACEPC PROSAVAGE-TWISTER BASED: X8	A BSP for VIA EPIA Mini-ITX platform. The platform uses the OS based on the x86 architecture.
(<u>Back</u>)	Note: Only BSPs supported by installed CPUs are displayed in the list. <u>Next > Einish Cancel</u>

Select VIACEPC PROSAVAGE-TWISTER BASED: X86

New Platform Wizard - Step 3 🛛 🛛 🔀				
Platform Configuration A platform configuration defines the default Windows CE features and available options you can select to include in your platform.				
	Select the platform configuration that most closely matches your device. <u>P</u> latform name:			
Windows Thin Client	VIA_TEST_PLATFORM			
Custom configuration	C:\WINCE420\PUBLIC\VIA_TEST_P			

Make "your " Selection from Available Configurations or Custom configuration and create a Platform Name for your Platform. This Example used VIA_TEST_PLATFORM.

•					
			e	,	
	4	l			

New Platform Wizard - Step 3			
Platform Configuration A platform configuration defines the default Wi available options you can select to include in y	ndows CE features and our platform.		
• Available configurations	Select the platform configuration that most		
Digital Media Receiver	closely matches your device.		
Enterprise Terminal	Provides the starting point for a range of Web Pad-based devices with touch display and wireless networking. <u>Platform name:</u> VIA TEST PLATEOBM		
Gateway Industrial Controller Internet Appliance IP Phone Mobile Handheld Mobile Phone Set-Top Box			
Tiny Kernel Windows Thin Client			
<u>Custom configuration</u>	Location: C:\WINCE420\PUBLIC\VIA_TEST_P		
2 < Back	<u>N</u> ext> <u>F</u> inish Cancel		

Click on next

New Platform Wizard - Step 4	8
Application & Media Select the application and media options you wa platform.	ant to include in your 🛛 🕹
Available features: .NET Compact Framework ActiveSync ✓ Inbox Inbox Internet Browser Lightweight Directory Access Protocol (LI ✓ Microsoft File Viewers Standard SDK for Windows CE .NET ✓ Windows Media Audio/MP3 ✓ Windows Media Video/MPEG-4 Video ✓ Windows Messenger ✓ WordPad	A technology that allows data synchronization between a device running the Microsoft Windows CE operating system and a desktop computer.
<	Estimated size of these features: 8910 KB
(Back	<u>N</u> ext > <u>F</u> inish Cancel

Select ActiveSync.



Select Standard SDK for Windows CE.Net if you want to be able to use Embedded Visual C++ for application development.

Make your selection based on your platform needs. Click Next.

New Platform Wizard - Step 5				
Networking & Communications Select the networking and communication option your platform.	ns you want to include in 🛛 🕹			
Available features:	A feature that provides LAN support for wired			
 Cocal Area Network (LAN) Wired Local Area Network Wireless Local Area Network (802.11 Personal Area Network (PAN) Remote Desktop Connection TCP/IPv6 Support Wide Area Network (WAN) Dial-up Networking (RAS/PPP) Point-to-Point Protocol over Ethernet Virtual Private Networking 	networks.			
<	Estimated size of these features: 10091 KB			
() C Back	<u>N</u> ext > <u>F</u> inish Cancel			

Make your Network & Communication selections. NOTE: Some selections shown above may not be available for all configurations.

New Platform Wizard - Step 6	×
ActiveSync	^
Security Warning	
Under certain circumstances, the ActiveSync feature can compromise the security of your platform. The ActiveSync feature is a potential security risk because it is designed to run over a network. If the device is run over a public network, such as the Internet, and the security of the device is compromised, it could expose the device or the local network to the public network.	
To learn about the potential ActiveSync security risks of this feature, see the following topics:	
ActiveSync Security	_
Creating a Secure Device	
Notification acknowledged.	
TCP/IPv6 Support	
C	~
(<u>Back</u> <u>Next</u>) Einish Cancel	

Some of the Communication Methods selected require you to acknowledge that the selection may have compromised security. Click on check box for all the feature's you want.

New Platform Wizard - Step 6	×
Creating a Secure Device	^
Notification acknowledged.	
TCP/IPv6 Support	
Security Warning	
Under certain circumstances, the Internet Protocol version 6 (IPv6) feature can compromise the security of your platform. For example, if IPv6 routing is enabled on an Internet Connection Sharing (ICS) gateway, IPv6 clients could be exposed directly to a public network or the Internet.	
To learn more about potential IPV6 security risks, as well as the best practices for using this feature more securely, see the following topics:	
TCP/IP Security	
Creating a Secure Device	
Notification acknowledged.	~
(<u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel	

Click Next.



Click on finish

In this part of the installation process you will select the features needed for your platform.

From the Catalog select the + sign next to Catalog to expand the Catalog

Catalog		8
Varjant:	ALL	×
0 🗊 🕀	atalog	

Right Click on Catalog. Then Left Click on Refresh Catalog. Then select the + sign next to Third Party to expand that section



Click on + next to Third Party Click on + next to Device Drivers Then the + next to Audio Then the + next to Display Then the + next to Networking Then the + next to Local Area Networking(LAN) devices



Right Click on VIA ATAPI PCI/IDE Storage Block Driver . A dialog box will appear, Select Add to Platform

Right Click on VIA SCIPWM Add to Platform A dialog box will appear, Select Add to Platform

The Work Space for your platform should look like this -





Copy from the Elo_SmartMonitor_BSP directory the EloTouchUSB directory to the WINCE420 directory.

To Install the Elo touch Driver & the Video Alignment tool. Select from the file menu "Manage Catalog Features..."

anage Catalog	Features	1		
mported catalog fe	ature <u>f</u> iles:			
File	Version	Vendor	Description	ок 🚺
eagle.cec	4.20	Microsoft	Eagle BSP Features	
emulator.cec	4.20	Microsoft	Emulator BSP Features	<u>R</u> emove
geode.cec	4.20	Microsoft	Geode BSP Features	<u> </u>
integrator.cec	4.20	Microsoft	ARM Integrator BSP Features	Import
keywest.cec	4.20	Microsoft	Keywest BSP Features	Tuberon
lubbock.cec	4.20	Microsoft	Lubbock BSP Features	Potroch
smdk2410.cec	4.20	Microsoft	Samsung SMDK2410 Development	nenesn
iabase.cec	4.20	Microsoft	Display based and Headless devices	
wcetk.cec	4.20	Microsoft	Windows CE Test Kit Client	
platmgr.cec	4.20	Microsoft	Platform Manager Features	
sourcetags.cec	4.20	Microsoft	Source code information for the sou	
viacepc.cec	4.20	VIA	CLE266, KLE-PLE, Prosavage/Twi	
uam3058.cec	4.20	VIA	3058 Audio UAM driver	
ddrawprosavag	4.20	VIA	Display Driver: Prosavage/Twister	
vt3065.cec	4.20	VIA	VT3065(VT86C100A/VT6102/VT6	

Click on Import... Find theC:\WINCE420 directory

Select EloTouchUSB Directory Then click on Elohid420.cec Click on Open

Import Catalog	Features				? 🔀
Look jn:	🗀 EloTouchUS	В	~ G) 🏚 📂 🖽	•
My Recent Documents Desktop	EloCpl420.cec				
My Documents					
My Computer					
My Network	File <u>n</u> ame: Files of <u>t</u> ype:	Catalog Feature Files (*.ceo	:)	*	<u>O</u> pen Cancel

ported catalog fe	ature <u>f</u> iles:				
File	Version	Vendor	Description	^	ОК
ntegrator.cec	4.20	Microsoft	ARM Integrator BSP Features		_
keywest.cec	4.20	Microsoft	Keywest BSP Features		Remove
ubbock.cec	4.20	Microsoft	Lubbock BSP Features		
mdk2410.cec	4.20	Microsoft	Samsung SMDK2410 Development		Import
abase.cec	4.20	Microsoft	Display based and Headless devices		
vcetk.cec	4.20	Microsoft	Windows CE Test Kit Client		Befresh
platmgr.cec	4.20	Microsoft	Platform Manager Features		<u>nënesn</u>
sourcetags.cec	4.20	Microsoft	Source code information for the sou		
/iacepc.cec	4.20	VIA	CLE266, KLE-PLE, Prosavage/Twi		
uam3058.cec	4.20	VIA	3058 Audio UAM driver		
drawprosavag	4.20	VIA	Display Driver:Prosavage/Twister		
/t3065.cec	4.20	VIA	VT3065(VT86C100A/VT6102/VT6		
cipwm.cec	4.20	VIA	SCIPWM Driver		
viaatapi.cec	4.20	VIA	ATAPI PCI/IDE Storage Block Driver		
elohid420.cec	4.20	Elo TouchS	This .cec file creates a USB touch	V	

Select Import

Import Catalog	Features							? 🔀
Look jn:	🚞 EloTouchUS	В	~	O	1	🖻 🛄		
My Recent Documents	C x86 EloCpl420.cec Elohid420.cec EloVa420.cec							
My Documents								
My Computer								
	File <u>n</u> ame:	EloVa420.cec				~	<u>(</u>	<u>]</u> pen
My Network	Files of <u>type</u> :	Catalog Feature Files (*.cec)				*		ancel

Click on EloVa420.cec

ported catalog fe	ature <u>f</u> iles:				
File	Version	Vendor	Description	~	ОК
keywest.cec	4.20	Microsoft	Keywest BSP Features		
ubbock.cec	4.20	Microsoft	Lubbock BSP Features		Remove
mdk2410.cec	4.20	Microsoft	Samsung SMDK2410 Development		<u></u>
abase.cec	4.20	Microsoft	Display based and Headless devices		Import
woetk.cec	4.20	Microsoft	Windows CE Test Kit Client		Tuterun
platmgr.cec	4.20	Microsoft	Platform Manager Features		Defrech
sourcetags.cec	4.20	Microsoft	Source code information for the sou		<u>nënesn</u>
/iacepc.cec	4.20	VIA	CLE266, KLE-PLE, Prosavage/Twi		
uam3058.cec	4.20	VIA	3058 Audio UAM driver		
drawprosavag	4.20	VIA	Display Driver:Prosavage/Twister		
/t3065.cec	4.20	VIA	VT3065(VT86C100A/VT6102/VT6		
cipwm.cec	4.20	VIA	SCIPWM Driver		
viaatapi.cec	4.20	VIA	ATAPI PCI/IDE Storage Block Driver		
elohid420.cec	4.20	Elo TouchS	This .cec file creates a USB touch		
elova420.cec	4.00	Elo TouchS	This .cec file creates a display drive	~	

Select Import

Import Catalog	Features				? 🔀
Look jn:	C EloTouchUSE	3	• G	1 🕫 📴 🖪	⊡ +
My Recent Documents	x86 EloCpl420.cec Elohid420.cec EloVa420.cec				
Desktop					
My Documents					
My Computer					
	File <u>n</u> ame:	EloCpl420.cec		~	<u>Open</u>
My Network	Files of type:	Catalog Feature Files (*.cec)		*	Cancel

Click on EloCpl420.cec

Click on Open

ported catalog fe	ature <u>f</u> iles:				
File	Version	Vendor	Description	^	ОК
agle.cec	4.20	Microsoft	Eagle BSP Features		_
emulator.cec	4.20	Microsoft	Emulator BSP Features		<u>R</u> emove
jeode.cec	4.20	Microsoft	Geode BSP Features		
ntegrator.cec	4.20	Microsoft	ARM Integrator BSP Features		Import
keywest.cec	4.20	Microsoft	Keywest BSP Features		Importan
ubbock.cec	4.20	Microsoft	Lubbock BSP Features		Potroch
mdk2410.cec	4.20	Microsoft	Samsung SMDK2410 Development		<u>nellesti</u>
abase.cec	4.20	Microsoft	Display based and Headless devices		
woetk.cec	4.20	Microsoft	Windows CE Test Kit Client		
platmgr.cec	4.20	Microsoft	Platform Manager Features		
ourcetags.cec	4.20	Microsoft	Source code information for the sou		
/iacepc_4_elo	4.20	VIA	Via BSP modified for Elo TouchSyst		
elohid420.cec	4.20	Elo TouchS	This .cec file creates a USB touch		
elova420.cec	4.00	Elo TouchS	This .cec file creates a display drive		
elocpl420.cec	4.20	Elo TouchS	Application	~	

Click on OK.

Under Catalog click on the + before Core OS to expand the selection It should look like this

Catalog	X
Varjant: ALL	~
 Catalog BSPs Core OS Display based devices DII UsbHIDMonitor exe EloCpl Exe EloVa Applications and Services Development Applications - End User Communication Services and Networking Core OS Services File Systems and Data Store Fonts International International 	
Multimedia Technologies Security	
	~

Right Click on .Dll UsbHIDMonitor A dialog box will appear, Select Add to Platform

Right Click on .Exe EloVa A dialog box will appear, Select Add to Platform

Right Click on .exe EloCpl A dialog box will appear, Select Add to Platform

To Add Serial Support

From The Catalog Window Click on the Device Drivers just under Core OS Then click on the + in front of Serial Right click on "Com16550" and select Add to Platform. Right click on "Com16550 (Second Instance)" and select Add to Platform. Right click on "Com16550 (Third Instance)" and select Add to Platform.

If You Plan to use PCMCIA devices

Right click on "Com_Card" and select Add to Platform.





To Add Storage device Support Click on the + in front of Storage Devices Right Click on "Compact Flash /PC Card Storage (ATADISK)" and select Add to Platform.

Catalog		X
Varjant: 4	ALL	¥
Varjant 4	ALL log 3SPs Core OS Device Drivers Di Audio Display IEEE 1394 Input Devices Networking Parallel PCI Bus	
	 PCMCIA (PC Card) Printer Devices Serial Smart Card Storage Devices Storage Devices ATAPI PCI/IDE Storage Block Driver Compact Flash / PC Card Storage (ATADISK) USB Function USB Host Windows CE Test Kit 	~



To Add USB Support to your platform:

In the Catalog under Device Drivers

Click on the + in front of "USB Function" Right click on Netchip NET2890 USB Function (Serial interface) and add to Platform

Then click on the + in front of USB Host Then click on the + in front of USB Host Controllers Right click on UHCI and Add to Platform





Then Select Core OS Select Display based devices Select Core OS Services Click on the + in front of "USB Host Support" Right click on USB Human Input Device (HID) Class Driver and Add to Platform Right Click on USB Storage Class Driver and Add to Platform



Save Workspace:

From the Platform Builder File menu select Save Workspace.

To Add PCMCIA Support to your platform:

Note: This feature is not currently compatible with Down loading an image for test. This feature works fine with the image loaded from Compact Flash.

From the Catalog select Device Drivers Click on the + in front of PCMCIA Right click on PCMCIA (i82365-compatible) and Add to Platform



To support PCMCIA you will need to replace the files in 2 directories under \WINCE420\PUBLIC\COMMON\OAK\DRIVERS\PCMCIA It would be advisable to create a Back-Up directory under PCMCIA and cut the original I82365 and MDD and paste them into the Back-Up Directory in the WINCE420\Elo_SmartMonitor_BSP\PCMCIA Directory there is a zip file, PCMCIA.zip unzip the contents to the same directory.

Then copy from the WINCE420\Elo_SmartMonitor_BSP \PCMCIA directory the I82365 and MDD into the \WINCE420\PUBLIC\COMMON\OAK\DRIVERS\PCMCIA Directory.

Select from the Build menu "Open Build Release Directory" a command window will open.





Type *cd..l.l.* You should see-



you should see-



C:\WINCE420\PUBLIC\COMMON\OAK\DRIVERS\PCMCIA> Type **Build -Ccfs**



🛤 Release Directory(_FLATRELEASEDIR): C:\WINCE420\PUBLIC\VIA_TEST_PLA 🗕 🗖 🗙
Compiling - c:\wince420\public\common\oak\drivers\pcmcia\mdd\.\wind
BUILD: c:\wince420\public\common\build.dat(12): corrupt database (F BUILD: Computing Include file dependencies:
BUILD: Examining c:\wince420\public\common\oak\drivers\pcmcia direc c:\wince420\public\common\oak\drivers\pcmcia\mdd - 15 source fi
Master db name is: C:\WINCE420\PUBLIC\COMMON\Build.dat BUILD: Saving C:\WINCE420\PUBLIC\COMMON\Build.dat
BUILD: Building generated files in c:\wince420\public\common\oak\dr BUILD: Building generated files in c:\wince420\public\common\oak\dr
BUILD: Building generated files in c:\wince420\public\common\oak\dr BUILD: Examining c:\wince420\public\common\oak\drivers\pcmcia direc
c:\wince420\public\common\oak\drivers\pcmcia\maa - 15 source f1 c:\wince420\public\common\oak\drivers\pcmcia\182365 - 4 source c:\wince420\public\common\oak\drivers\pcmcia\1926 - 5 source
c:\wince420\public\common\oak\drivers\pcmcia\ti1250isr - 1 sour Master dh name is: C:\WINCE420\PUBLIC\COMMON\Build_dat
BUILD: Saving C:\WINCE420\PUBLIC\COMMON\Build.dat Total of 25 source files (15.513 lines) to compile in 4 directories
BUILD: Compiling c:\wince420\public\common\oak\drivers\pcmcia\mdd d

1

After the build completes. Type **exit**

🛤 Release Directory(_FLATRELEASEDIR): C:\WINCE420\PUBLIC\X86SMARTMON 💶 🗙
<pre>Srcgen C:\WINCE420\PUBLIC\COMMON winceos C:\WINCE420\public\common BUILD: Compile and Link for x86. Master db name is: C:\WINCE420\PUBLIC\COMMON\Build.dat BUILD: Loading C:\WINCE420\PUBLIC\COMMON\Build.dat BUILD: Computing Include file dependencies: BUILD: Examining c:\wince420\public\common\oak\drivers\pcmcia\mdd - 15 source fil Master db name is: C:\WINCE420\PUBLIC\COMMON\Build.dat BUILD: Saving C:\WINCE420\PUBLIC\COMMON\Build.dat BUILD: Building generated files in c:\wince420\public\common\oak\drivers\pcmcia direct BUILD: Building generated files in c:\wince420\public\common\oak\dri BUILD: Examining c:\wince420\public\common\oak\drivers\pcmcia\mdd - 15 source fil c:\wince420\public\common\oak\drivers\pcmcia\</pre>
BUILD: Compiling c:\wince420\public\common\oak\drivers\pcmcia\mdd di BUILD: Compiling c:\wince420\public\common\oak\drivers\pcmcia\i82365 BUILD: Compiling c:\wince420\public\common\oak\drivers\pcmcia\ti1250 BUILD: Compiling c:\wince420\public\common\oak\drivers\pcmcia\ti1250 BUILD: Linking c:\wince420\public\common\oak\drivers\pcmcia\i82365 d BUILD: Linking c:\wince420\public\common\oak\drivers\pcmcia\ti1250 is BUILD: Linking c:\wince420\public\common\oak\drivers\pcmcia\ti1250 is BUILD: Done
25 files compiled C:\WINCE420\PUBLIC\COMMON\OAK\DRIVERS\PCMCIA>exit
The command window will close

The command window will close.

Save Workspace: From the Platform Builder File menu select Save Workspace.

This is a good place to Build an Initial image. From the Menu select Build Rebuild Platform This may take 10 minutes to a couple hours You should see the following message VIA_TEST_Platform - 0 error(s), 0 warning(s)

To add Persistent registry storage:

In the Catalog under Core OS

Click on the + in front of "File Systems and Data Store"

Click on the + in front of "File and Database Replication (Choose 1)" Right click on Bit-based and Add to Platform

Click on the + in front of "File System - Internal (Choose 1)" Right click on "RAM and ROM File System" and Add to Platform

Click on the + in front of "Registry Storage (Choose 1)" Right click on "Hive-based Registry" and Add to Platform

you may see a dialog box



Click on Yes.



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To Add A Software Input Panel (On screen Keyboard) Under Core OS Click on the + in front of "Shell and User Interface" Click on the + in front of "User Interface" Click on the + in front of "Software Input Panel" Click on the + in front of "Software Input Panel(SIP)(Chose one or more) Right Click on "SIP for Large Screens" Select Add to Platform

Catalog	
Varjant: ALL	-
	-
🚍 🚛 Display based devices	
DII UsbHIDMonitor	
🧃 .exe EloCpl	
Exe EloVa	
🕀 🧰 Applications and Services Development	
🗊 🧰 Applications - End User	
🕀 🦲 Communication Services and Networking	
🕀 🦲 Core OS Services	
🕀 🦲 File Systems and Data Store	
🖬 🛄 International	
 Internet Llient Services Multimedia Technologia 	
🖬 🦲 Mukimedia Lechnologies	
Security	
Controls Option B	
🗉 🧰 Customizable UI	
👖 Menu Tool Tip	
Mouse	
🔤 🧻 Network User Interface	
🔤 🚺 Overlapping Menus	
🔤 🔋 Quarter VGA Resources - Portrait Mode	
🖨 🔄 Software Input Panel	_
Software-based Input Panel Driver	
😑 🔄 Software-based Input Panel (SIP) (Choose 1 or more)	
I SIP for Large Screens	
SIP for Small Screens	
Speech Interrace	

Copy from WINCE420\Elo_SmartMonitor_BSP\LARGEKB\Lib directory largekb.def ,largekb.res,largekb.pdb,Largekb.lib into \WINCE420\PUBLIC\COMMON\OAK\LIB\X86\RETAIL

Confirm	File Replace
1	This folder already contains a file named 'largekb.pdb'.
	Would you like to replace the existing file
	76.0 KB modified: Friday, March 21, 2003, 12:00:00 AM
	with this one?
	76.0 KB modified: Today, April 19, 2004, 8:49:30 AM
	Yes to <u>A</u> ll <u>N</u> o Cancel
Click on Y	es to All

To launch the Calibration Program on first time the system is powered up. Copy from the WINCE420\ Elo_SmartMonitor_BSP\FirsTouch directory Paste into Directory C:\WINCE420\PUBLIC\VIA_TEST_PLATFORM If you named your Platform something other than VIA_TEST_PLATFORM, Replace VIA_TEST_PLATFORM in the Directory path above with the name of your workspace.

😂 FirsTouch				
<u> File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> e	lp			2
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Then copy all the files in directory to WINCE420\Elo_SmartMonitor_BSP\PROJECT\files This installs the following features these are optional. Custdisplay test program Elova calibration program FirsTouch calibration on first power up SipLaunch toggles on screen keyboard

🗀 files				
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🛱 Elova	1 KB	Shortcut	4/15/2004 2:49 PM	
FirsTouch	1 KB	Shortcut	4/15/2004 2:49 PM	
project.bib	2 KB	BIB File	4/15/2004 2:49 PM	
🚾 project.dat	1 KB	DAT File	4/15/2004 2:49 PM	
🔊 project.db	2 KB	Data Base File	4/15/2004 2:49 PM	
project.reg	5 KB	Registration Entries	4/15/2004 2:49 PM	
न SipLaunch	1 KB	Shortcut	4/15/2004 2:49 PM	ŝ
ver20_elo.bmp	182 KB	Bitmap Image	4/15/2004 2:49 PM	R 2
		15 2345	ar ar	

to the Directory C:\WINCE420\PUBLIC\VIA_TEST_PLATFORM\WINCE420\VIACEPC\oak\files If you named your Platform something other than VIA_TEST_PLATFORM Replace VIA_TEST_PLATFORM in the Directory path above with the name of your workspace.



To add FirsTouch

Copy the directory Firstouch from \Elo_SmartMonitor_BSP\Firstouch

Elo_SmartMonitor_BSP			
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🛅 EloTouchUSB	File Fold	ler 8/18/200	14 8:39 AM
🛅 fet3065v2.643a.net42	File Fold	ler 8/18/200	14 8:39 AM
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🛅 floppydisk v2.002a.net42	File Fold	ler 8/18/200	14 8:39 AM
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DROJECT	File Fold	ler 8/18/200)4 8:39 AM 🞽
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to Your Project Root directory. In this example \\WINCE420\PUBLIC\VIA_TEST_PLATFORM Replace VIA_TEST_PLATFORM with the name of your workspace.

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C WCESHELLFE	File Fold	ler 8/18/2004 7:3	31 AM
			*
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If you want to launch the Large Soft Input Panel (keyboard) Program on From an Desk top Icon Copy the SipLaunch directory from \Elo_SmartMonitor_BSP\SipLaunch





to Your Project Root directory. In this example \\WINCE420\PUBLIC\VIA_TEST_PLATFORM Replace VIA_TEST_PLATFORM with the name of your workspace.

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SQLCE	File Folder	8/18/2004 7:31 AM 🔛
VIA_TEST_PLATFORM	File Folder	8/18/2004 10:05 AM
C VIEWERS	File Folder	8/18/2004 7:31 AM 👘
CEAPPSFE	File Folder	8/18/2004 7:31 AM
CESHELLFE	File Folder	8/18/2004 7:31 AM 📃
		*
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SerSplat is a simple test program for the Customer Display. If you want to include it in you build copy the directory SerSplat from the CD





to Your Project Root directory .In this example VIA_TEST_PLATFORM Replace VIA_TEST_PLATFORM with the name of your workspace.

DUBLIC		
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CEAPPSFE	File Folder	8/18/2004 7:31 AM
CESHELLFE	File Folder	8/18/2004 7:31 AM 📃
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To place shortcuts on the desktop

Copy Elo.str from the \\WINCE420\Elo_SmartMonitor_BSP to C:\WINCE420\PUBLIC\VIA_TEST_PLATFORM\WINCE420\VIACEPC\oak\files\INTLTRNS\0409

C:WINCE420\PUBLICWIA_TEST_PLATFORM		20\VIACEPC\oal	Afiles\INTL		
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THIS SECTION IS INFORMATIONAL ONLY CONTINUE BELOW

If you copied the project.bib & project.dat files these short cuts are included in the build **In project.bib:**

elova.lnk \$(_FLATRELEASEDIR)\elova.lnk NK S NK S \$(FLATRELEASEDIR)\elocpl.lnk elocpl.lnk CustDiaplay.Ink \$(_FLATRELEASEDIR)\CustDisplay.Ink NK S SipLaunch.Ink \$(_FLATRELEASEDIR)\SipLaunch.Ink NK S FirsTouch.LNK \$(PUBLICROOT)\\$(TGTPROJ)\FirsTouch\FirsTouch.LNK NK S In project.dat: Directory("\Windows\StartUp"):-File("FirsTouch.Ink","\Windows\FirsTouch.Ink") Directory("\Windows\LOC_DESKTOP_DIR"):-File("LOC_ELOVA_LNK","\Windows\elova.lnk") Directory("\Windows\LOC_DESKTOP_DIR"):-File("LOC_CUSTDISP_LNK","\Windows\CustDiaplay.lnk") Directory("\Windows\LOC DESKTOP DIR"):-File("LOC_SIP_LAUNCH_LNK","\Windows\SipLaunch.lnk")

If you don't want one or more of the above place a ; in front of that line in the file.

To Place Logo on the desktop From the Platform Builder Menu select **files** and from the dropdown menu select **open** Find the root WINCE420 directory.

Open						? 🔀
Look in: Elo_Smart(Elo_Smart(EloTouchU OTHERS PLATFORM PUBLIC SDK	WINCE 420 Monitor_BSP 5B		• •		P	•
File <u>n</u> ame:						ien
Files of <u>t</u> ype:	C++ Files (.c).cpp;.cxx;.tlj;.h;.tlh;.inl;.rc)			~	Car	ncel
Open <u>a</u> s:	Dpen as read-only	~				

Select PUBLIC directory.

Open		? 🛛
Look jn: 🛅	PUBLIC 🕑 🧿 🎓	📂 🖽 •
COMMON DATASYNG DCOM DIRECTX HLBASE IABASE IE NETCF RDP SCRIPT	SERVERS SHELL SHELLSDK SPEECH SQLCE VIA_TEST_PLATFORM VIEWERS WCEAPPSFE WCESHELLFE	
File <u>n</u> ame:		<u>O</u> pen
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	Open as read-only	
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Select WCESHELLFE

Open					? 🔀
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Select OAK directory.

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Files of type:	iles (*.*)		T	Cancel
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Open <u>a</u> s: Auto)	•		li.

In the Files of type window select All Files (*.*)

Type in the File name window wceshellfe.reg

Open				? ×
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File <u>n</u> ame:	wceshellfe.reg			<u>O</u> pen
Files of <u>type</u> :	All Files (*.*)		•	Cancel
 Open <u>a</u> s:	Open as read-only Auto	•		

Click Open.

Select Platform Builder's Edit menu. From the drop down list select find.

In the Find Dialog box Type wallpaper

Find			×
Find what: wallpaper		- •	<u>F</u> ind Next
Match whole word only	- Direction		<u>M</u> ark All
Regular <u>e</u> xpression	C <u>U</u> p ⊙ <u>D</u> own		Cancel
Search <u>all open documents</u>			

Click on Find Next.

You will see:



[HKEY_CURRENT_USER\ControlPanel\Desktop] "wallpaper"=\\Windows\\WindowsCE.bmp place the cursor on the next line. Type "wallpaper"="\\Windows\\ver3.3_elo.bmp just below [HKEY_CURRENT_USER\ControlPanel\Desktop]

and put a ; in front of "wallpaper"=\\Windows\\WindowsCE.bmp

the result should look like below.



Save & close the file.

From the Menu select Build Rebuild Platform

Copy the C:\WINCE420\PUBLIC\VIA_TEST_PLATFORM\RelDir\VIACEPC_PROSAVAGE-TWISTER_BASED_X86Release nk.bin to your Compact Flash Card, or boot device.

C:\WINCE420\PUBLICWIA_TEST_PLATFORM\ReIDir\	VIACEPC_PROSAVAGE-TWI	STER_BASED_X8 🔳 🗖 🔯
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Address 🛅 C:\WINCE420\PUBLIC\VIA_TEST_PLATFORM\RelDir\VIA	CEPC_PROSAVAGE-TWISTER_BA	.SED_X86Release 🛛 🎽 🕞 Go
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🛅 VIACEPC PROSAVAGE-TWISTER 🔥	🔟 NK.bin	20,169 KB 🛛 BIN File 🖉 💆
🖃 🚞 VIACEPC_PROSAVAGE-TWISTER_	🖬 mshtml.pdb	6,849 KB PDB File
🗀 0C0A	🖬 1033.ngr	5,779 KB NGR File
🛅 040C	📄 nlssrc.txt	5,269 KB Text Document
🛅 041D	🖬 msxml3.pdb	4,153 KB PDB File
i 0404	🖬 1033.dlm	3,501 KB DLM File
<u></u> 0407	🖬 rtcclient.pdb	3,393 KB PDB File
🛅 0409	🖬 msmsgs.pdb	2,897 KB PDB File
iii 0410	🔊 mshtml.dll	2,712 KB Application Exte
in 0411	🖬 mshtml.map	2,548 KB MAP File
iii 0412	🖬 gwes.pdb	2,369 KB PDB File
iii 0413	🖬 shdocvw.pdb	2,345 KB PDB File
iii 0416	🖬 mfcce400.pdb	2,268 KB PDB File
i 0804	🖬 mstscax.pdb	2,113 KB PDB File
🕀 🧰 intlfile	🖬 olece400.pdb	2,036 KB PDB File
🗉 🧰 intltrns	🖬 quartz.pdb	1,985 KB PDB File
🚞 postproc	🖬 coredll.pdb	1,857 KB PDB File
🚞 usasnap	🖬 msdxm.pdb	1,633 KB PDB File
🚞 voices	🔤 mshtml.rel	1,595 KB REL File 💡
💷 🦳 Sinl aunch 🔛 🔛	ale32 pdb	
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Creating a Bootable Compact Flash Card.

There are a number of ways to create a bootable compact Flash card or hard drive for the Smart monitor. Creating a dos bootable partition using dos 5.0 or higher using fdisk & format.

Also provided on the CD under the directory \Elo_SmartMonitor_BSP\FreeBootv1.54a is the free boot utility which creates a boot loader on a bios accessible boot device.

Caution: Do not execute freeboot on your Desktop Computer. It can **Destroy** the **Primary Boot Partition** of your hard drive.

Copy nk.bin, Bootload.bin, Bootarg.dat and vialogo.bmp to the Boot device (compact flash or hard drive).

In most cases you will use a compact flash with the Elo System.

Copy the entire root directory of FreeBootv1.54a to a bootable floppy.

Then put the compact flash with the added files into the SmartMonitor. Plug a USB floppy into the smart monitor. Enter bios settings and select to boot off the USB floppy

execute EloBoot.bat Type eloboot

this will create a non-dos bootloader for Windows CE. It replaces the dos boot record with the CE Loader.

KNOWN Issues:

1.

If you use the Ethernet to Download an NK.bin image to your target:

a.

And you have installed PCMCIA support the system will hang . If you disable PCMCIA support & rebuild the image. Ethernet Download should work.

b.

You will need to have a Compact Flash card installed or Ethernet Download will fail.

2.

If you boot system with a PCMCIA Card installed & or a USB Floppy Drive & or a USB CD ROM it may take in excess of 1 minute for the system to see the device(s).

If you hot plug in any to of the same devices ROM it may take in excess of 1 minute for the system to see the device (s).

3.

When the system is first powered up from a newly created Compact Flash or a new NK.bin file.

the cursor may not track touch. Restart the system by the power button or by selecting Suspend from the Start menu.