VC70N0 Programming – Addendum

Note: The following sections will replace the existing GUI, Bluetooth, Scanning and Keyboard sections in the VC70N0 Programming in the EMDK for C v2.7 Help file.

GUI

- 1. **Resolution Issues** VC70N0 supports the SVGA (800x600) and XGA (1024x768) resolutions. The "Screen Resolution" applet in System can be used to switch between SVGA and XGA resolutions. If you are porting an application designed to work on a different resolution, the graphic objects may not display as intended on the VC70N0. The GUI objects may be distorted or partially visible or completely invisible. You will need to modify your application to work on multiple resolutions. Numerous articles available online describe how to write an application to run on multiple resolutions.
- 2. **Portrait and Landscape modes** You may want to consider designing the GUI to scale for both portrait and landscape modes. The VC70N0 comes with the accelerometer which allows the screen to rotate automatically when the device is rotated.

Bluetooth

- 1. **Bluetooth Stack** Both StoneStreet One and Microsoft stacks are available on the device. By default, Microsoft stack is loaded. The stacks can be switched by following these steps:
 - Modify the following registry setting on the device:
 1 = Stone Street, 0 = Microsoft
 HKEY_LOCAL_MACHINE\Software\SymbolBluetooth\SSStack
 - Warm boot the device
- 2. **Porting** If you have written a C/C++ application targeting StoneStreet stack and would like to use Microsoft stack instead (or vice versa), you will need to modify the application to use the Microsoft Bluetooth APIs. There is no compatibility between the syntax and behavior of these two sets of APIs. Refer to the MSDN for Microsoft Bluetooth APIs. The StoneStreet APIs are documented in the EMDK Help file.
- 3. **Available com ports for Bluetooth Serial Operations** For Microsoft stack, any com port from 0 to 9 can be used if it is not already used. For StoneStreet stack, refer to the following registry for available com ports:

HKEY_LOCAL_MACHINE\Software\Stonestreet One\BTExplorer\Device Settings\FactoryCOMPorts

Scanning

The following external scanners are compatible with VC70N0 when using EMDK for C. Please refer to VC70N0 product reference guide for more information on configuring these scanners with the device.

- LS3408-ER Corded Laser Scanner
- 2. **DS3508-ER** Corded Imager Scanner
- 3. **LS3578** Bluetooth Laser Scanner
- 4. **DS3578** Bluetooth Imager Scanner
- 5. **RS507** Bluetooth Imager Scanner

Note: These external scanners behave differently in case of reader parameters. Please refer to Appendix for more information on the specific behavior of <u>IMAGER_SPECIFIC</u> and <u>LASER_SPECIFIC</u> reader parameters.

Keyboard

1. Not supported. Even though VC70N0 supports external USB keyboards, programmatically accessing them using the Keyboard APIs available in EMDK for C is not supported.

Appendix

IMAGER_SPECIFIC

	Member	Supported?	Notes
DWORD	dwAimType	Yes	1. The following aim types are not supported: AIM_TYPE_TIMED_HOLD AIM_TYPE_TIMED_RELEASE AIM_TYPE_PRESENTATION 2. In case of AIM_TYPE_PRESS_AND_RELEASE, the aim will be present as long as the trigger is pressed.
DWORD	dwAimDuration	No	
DWORD	dwAimMode	Yes	Not applicable for DS3508-ER. In case of DS3508-ER, AIM_MODE_NONE means aiming is disabled and any other option means aiming is enabled.
DWORD	dwBeamTimer	Yes	Valid values: 500ms to 9900ms or 0ms. DS3508-ER does not support the value of 0ms.
DWORD	dwPointerTimer	No	
DWORD	dwImageCaptureTimeout	No	
DWORD	dwImageCompressionTimeout	No	
DWORD	dwLinearSecurityLevel	Yes	
DWORD	dwFocusMode	Yes	Applicable for DS3508-ER only.
DWORD	dwFocusPosition	Yes	Applicable for DS3508-ER only.
BOOL	bPoorQuality1DMode	Yes	
BOOL	bPicklistMode	Yes	The Picklist is disabled by default.
DWORD	dwPicklistModeEx	Yes	The PICKLIST_SOFTWARE_RETICLE is not supported.
DWORD	dwDPMMode	Yes	Applicable for DS3408-HD only. The DPM is disabled by default.
DWORD	dwIlluminationMode	Yes	
RECT	rVFPosition	No	
DWORD	dwVFMode	No	
DWORD	dwVFFeedback	No	
DWORD	dwVFFeedbackTime	No	

DWORD	dwInverse1DMode	Yes	
DWORD	dwSameSymbolTimeout	Yes	Valid values: 0ms to 9900ms.
DWORD	dwDifferentSymbolTimeout		 Valid values: 100ms to 9900ms or 0ms. DS3508-ER does not support the value of 0ms.
DWORD	dwLcdMode	Yes	

LASER_SPECIFIC

	Member	Supported?	Notes
DWORD	dwAimType	Yes	1. The following aim types are not supported:
			AIM_TYPE_TIMED_RELEASE
			AIM_TYPE_PRESENTATION
			AIM_TYPE_CONTINUOUS_READ
			2. The AIM_TYPE_TRIGGER will be used if
			an unsupported aim type is selected.
			3. In case of AIM_TYPE_TRIGGER, the
			decode session will not depend on the beam
			timer.
DWORD	dwAimDuration	Yes	Applicable for AIM_TYPE_TIMED_HOLD
			only.
DWORD	dwAimMode	No	
BOOL	bNarrowBeam	Yes	
DWORD	dwBeamWidth	Yes	In case of LS3408-ER,
			BEAM_WIDTH_WIDE is same as
			BEAM_WIDTH_NORMAL.
DWORD	dwRasterMode	No	
DWORD	dwBeamTimer	Yes	In case of LS3408-ER, supports values from
			500ms to 9900ms and does not support the
			value of 0ms.
BOOL	bControlScanLed	No	
BOOL	bScanLedLogicLevel	No	
BOOL	bKlasseEinsEnable	No	
BOOL	bBidirRedundancy	Yes	
DWORD	dwLinearSecurityLevel	Yes	
DWORD	dwPointerTimer	No	
DWORD	dwRasterHeight	No	
DWORD	dwDBPMode	No	
DWORD	dwSameSymbolTimeout	No	
DWORD	dwDifferentSymbolTimeout	No	
DWORD	dwAdaptiveScanning	No	

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