

VC70N0 Programming - Addendum

The following sections will replace the existing GUI, Bluetooth, Scanning and Keyboard sections in the VC70N0 Programming under the Programmer's Guide of EMDK .NET v2.8 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 .NET application to target Stone Street stack and if you are using the Symbol.WPAN class library provided in EMDK for .NET, the porting of the existing applications may not be too complicated. The Symbol.WPAN class library is designed to provide an abstraction of both Stone Street and Microsoft APIs. The majority of the methods and the properties in this class work exactly the same independent of which stack is selected for use. However there are some behavioral differences that must be understood before porting applications. Refer to the section “WPAN Programmer's Guide” of the EMDK for .NET help file for more information.
3. **Available com ports for Bluetooth Serial Operations** – For Microsoft stack, com port 0 to 9 can be used if they are not already in use. For StoneStreet stack, refer to the following registry for available com ports:

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

The property Bluetooth.LocalComPorts in Symbol.WPAN class library provides this list of COM ports available on the local device. The property RemoteDevice.LocalComPort property provides the local COM port to use for the remote device. One of the ports from the list given by Bluetooth.LocalComPorts can be used to set the property RemoteDevice.LocalComPort.

Scanning

The following external scanners are compatible with VC70N0 when using EMDK for .NET. Refer VC70N0 product reference guide for more information on configuring these scanners with the device.

- LS3408-ER Corded Laser Scanner
- DS3508-ER Corded Imager Scanner
- LS3578 Bluetooth Laser Scanner
- DS3578 Bluetooth Imager Scanner
- RS507 Bluetooth Imager Scanner

The external scanners behavior changes based on different reader properties and refer to Appendix for more information on specific behavior of [IMAGER_SPECIFIC](#) and [LASER_SPECIFIC](#) reader properties.

Keyboard

Not supported. Even though VC70N0 supports external USB keyboards, programmatically accessing the keyboard by using EMDK APIs is not supported.

Appendix

IMAGER_SPECIFIC Reader Properties

Property	Supported?	Comments
AimType	Yes	1. The below aim types are not supported: AIM_TYPE_TIMED_HOLD AIM_TYPE_TIMED_RELEASE AIM_TYPE_PRESENTATION 2. For AIM_TYPE_PRESS_AND_RELEASE, the aim will be present as long as the trigger is pressed.
AimDuration	No	
AimMode	Yes	For DS3508-ER scanner, AIM_MODE_NONE means aiming is disabled and any other option means aiming is enabled.
BeamTimer	Yes	Valid values: 500ms to 9900ms or 0ms. DS3508-ER scanner does not support the value 0ms.
PointerTimer	No	
ImageCaptureTimeout	No	
ImageCompressionTimeout	No	

LinearSecurityLevel	Yes	
FocusMode	Yes	Applicable for DS3508-ER scanner only
FocusPosition	Yes	Applicable for DS3508-ER scanner only
PoorQuality1DMode	Yes	
PicklistMode	Yes	The Picklist is disabled by default.
PicklistModeEx	Yes	The PICKLIST_SOFTWARE_RETICLE is not supported.
DPMMode	Yes	Applicable for DS3408-HD only. The DPM is disabled by default.
IlluminationMode	Yes	
VFPosition	No	
VFMode	No	
VFFeedback	No	
VFFeedbackTime	No	
Inverse1DMode	Yes	
SameSymbolTimeout	Yes	Valid values: 0ms to 9900ms.
DifferentSymbolTimeout	Yes	Valid values: 100ms to 9900ms or 0ms. DS3508-ER does not support the value 0ms.
LCDMode	Yes	

LASER_SPECIFIC Reader Properties

Property	Supported?	Comments
AimType	Yes	<p>1. The below aim types are not supported: AIM_TYPE_TIMED_RELEASE AIM_TYPE_PRESENTATION AIM_TYPE_CONTINUOUS_READ</p> <p>2. The AIM_TYPE_TRIGGER will be used if an unsupported aim type is selected.</p> <p>3. For AIM_TYPE_TRIGGER, the decode session will not depend on the beam timer.</p>
AimDuration	Yes	Applicable only for AIM_TYPE_TIMED_HOLD.

AimMode	No	
NarrowBeam	Yes	
BeamWidth	Yes	For LS3408-ER scanner, BEAM_WIDTH_WIDE is same as BEAM_WIDTH_NORMAL.
RasterMode	No	
BeamTimer	Yes	The LS3408-ER scanner supports values from 500ms to 9900ms and does not support the value 0ms.
ControlScanLed	No	
ScanLedLogicLevel	No	
KlasseEinsEnable	No	
BidirRedundancy	Yes	
LinearSecurityLevel	Yes	
PointerTimer	No	
RasterHeight	No	
DBPMode	No	
SameSymbolTimeout	No	
DifferentSymbolTimeout	No	
AdaptiveScanning	No	