Release Notes - EMDK for .NET v2.7

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1 Important News

1. **End of Support for WirelessLAN Assembly** - Beginning with EMDK for .NET v2.5, the WirelessLAN assembly is no longer supported. If you are still using the WirelessLAN class library, you must transition to the Fusion class library.

2. **End of Support for Compact Framework 1.0 and Visual Studio .NET 2003** - Beginning with EMDK for .NET v2.4, Compact Framework 1.0 and Visual Studio .NET 2003 are not supported. The support for these tools is provided by the previous versions of this product which will continue to be available on the Support Central.

2 Introduction

The EMDK for .NET provides developers with the tools necessary to create C# and VB.NET managed applications for enterprise mobility devices from Zebra. These tools include class libraries, sample applications, and associated documentation. EMDK for .NET allows Microsoft® .NET Compact Framework developers to programmatically access the enterprise mobility features on the devices. This developer kit is designed for use with Visual Studio 2005 and Visual Studio 2008.

3 Description

1. New device support for LEX700 WM6.5, MC4500 WM6.5, MC67NA WM6.5, VC70N0 CE7.0 and WT41N0 CE7.0.
    - The ring scanner RS419 is approved for use with WT41N0.
    - The ring scanner RS507 is approved for use with LEX700, MC67NA, VC70N0 and WT41N0.

2. New class library Symbol.Sensor:

- Provides access to the sensors to sense and react to environmental changes, motion/orientation and user input. Some of the sensors are accelerometer, orientation, tilt angle, motion and temperature.
- New SensorSample1 applications for illustrating the usage of the Sensor APIs.
- Refer to the Sensor Programmer's Guide provided in the help documentation for more information on the Sensors.
- The new Sensor class library is supported on LEX700, MC67NA, VC70N0 and WT41N0. MC4500 does not support accessing the sensors programmatically.

3. The Document Capture (DocCap) feature is now approved for use with MC65 WM6.5 and MC67NA WM6.5.
   - MC65 requires manually installing the DocCap drivers. To download these drivers, go to http://support.symbol.com/ and search for "Document Capture v1.0 for MC65 ". These drivers are configured for MC65 only and should not be used on any other device.
   - MC67NA is shipped with the DocCap drivers.
   - The DocCap is currently supported on MC65 WM6.5, MC67NA WM6.5, MC3100 CE6.0, MC9100 CE6.0, MC3100 WM6.5, MC55A WM6.5, MC75A WM6.5, MC9100 WM6.5 and MC9500 WM6.5.

4. Updated Symbol.Fusion class library with the support for Fusion X_2.00. Fusion X_2.00 supports Data/Voice Performance setting and RF Band & Channel settings.

5. Updated Symbol.ResourceCoordination class library with the new features BatteryPartNumberEx, BatteryType & StateOfHealthEx in the SmartBatteryStatus class. These new features may not be available on all devices.

6. Fixed the following issues:
   - Fixed the issue with the Symbol.WPAN.Bluetooth object that throws the "Failure in setting RadioMode" exception after a clean or cold boot.
   - Fixed the issue of Symbol.Fusion which causes a memory drop when multiple WLAN instances are created repeatedly.
   - Fixed the issue with returning VBUSERR_DUPLICATE_PARAM_SPECIFIED when using the EnabledParameters.Add() method in Symbol.Telemetry. In the previous versions of EMDKs, VBUSERR_DUPLICATE_PARAM_SPECIFIED would be returned if the requested ParamId, MID, SourceAddress field

values are already used with an existing enabled parameter, even though the SourceAddress2 values are different. Now VBUSERR_DUPLICATE_PARAM_SPECIFIED would be returned only if all the four (ParamId, MID, SourceAddress and SourceAddress2) values are duplicated.

Update 1 provides support for the followings:

1. New device support for MK3100 CE7.0.

2. Updated Symbol.Fusion class library to include support for Fast Roaming and Data/Voice Performance settings on MC2100 with Fusion X_2.01.

3. Fixed the issue of "NullReferenceException" observed when using the Symbol.Fusion class library on LEX700. The updated Symbol.All.Arm.Cab distributed with this update must be used.

4. Enhanced the Symbol.Sensor class library to include support for a third temperature sensor when using the DEVICE_IDENTIFIER enum field.

Update 2 provides support for the followings:

1. Updated Symbol.Barcode2 class library to include the support for Document Capture v2.0 (DocCap 2.0):
    - This supports new trigger mode, TIFF file format, edge detection types, DocCap status notifications and DocCap version retrieval.
    - Updated DocCapSample1 applications for illustrating the use of the DocCap 2.0 features.
    - Added support for the following devices:
        1. MC67NA. This requires manually installing the DocCap 2.0 drivers. To download these drivers, go to http://support.symbol.com/ and search for "Document Capture v2.0 for MC67".
        2. MC65. This requires manually installing the DocCap 2.0 drivers. To download these drivers, go to http://support.symbol.com/ and search for "Document Capture v2.0 for MC65". (Added in June 2013) *

2. Rollup of previously released v2.7 Update 1.

* New device approval has been received for this package. The approval did not require any software changes. If you have already installed the package, there is no need to download and install it again.

4 Device Compatibility

This software release has been approved for use with the following devices.

Device	Win CE 5.0	Win CE 6.0	Win CE 7.0	Win Mobile 5.0	Win Mobile 6.0/6.1	Win Mobile 6.5	Custom Linux
ES400						*	
FX7400	*						
FX9500							*
LEX700						*	
MC1000	*						
MC17	*						
MC2100		*					
MC3000	*				*		
MC3190Z						*	
MC3100		*			*	*	
MC4500						*	
MC55					*	*	
MC55A						*	
MC55N0						*	
MC65						*	
MC67NA						*	
MC70				*	*		
MC75					*	*	
MC75A						*	
MC9000	*			*			
MC9090	*			*	*		
MC9090-Z					*		
MC9100		*				*	
MC9500					*	*	
MK500	*						
MK3000	*						
MK3100			*				

MK4000	*						
MT2000	*						
RD5000	*						
VC5090	*						
VC6090					*	*	
VC70N0			*				
WT4000	*						
WT41N0			*				
XR400 Series	*						

* Supported device

NOTE: Support for the older devices is provided by previous versions of this product.

5 Installation Requirements

Development PC

Install Requirements for Visual Studio 2005:

- Microsoft® Windows XP (32-bit) or Microsoft® Windows Vista (32-bit) or Microsoft® Windows 7 (32-bit and 64-bit)
- Microsoft® Visual Studio 2005 *
- Microsoft ActiveSync 4.2 or higher (only for Windows XP, Vista has its own Mobile Device Center)
- Microsoft® Windows Mobile Device Center 6.1 or higher. (only for Windows 7)
- One of more of the following SDKs for the Windows Mobile development:
  - Microsoft® Windows Mobile 5.0 SDK for PocketPC
  - Microsoft® Windows Mobile 6.0 Professional SDK for Pocket PC
  - Microsoft® Windows Mobile 6.5 Professional Developer Tool Kit

* EMDK for .NET requires at least Visual Studio 2005 Service Pack 1 installed on the development PC.

Install Requirements for Visual Studio 2008:

- Microsoft® Windows XP (32-bit) or Microsoft® Windows Vista (32-bit) or Microsoft® Windows 7 (32-bit and 64-bit)
- Microsoft® Visual Studio 2008 *
- Microsoft ActiveSync 4.5 or higher (only for Windows XP, Vista has its own Mobile Device Center)
- Microsoft® Windows Mobile Device Center 6.1 or higher. (only for Windows 7)
- One of more of the following SDKs for the Windows Mobile development:
    - Microsoft® Windows Mobile 6.0 Professional SDK for Pocket PC
    - Microsoft® Windows Mobile 6.5 Professional Developer Tool Kit

If developing applications for Windows Embedded Compact 7.0 (CE 7.0) is a requirement, then install the followings:

- Microsoft® Visual Studio 2008 with Service Pack1
- Install the update that adds support for Windows Embedded Compact 7.0
- Install the update that extends support for Windows Embedded Compact 7.0. This fix is required only if you are targeting ATL or MFC.

* The edition of Visual Studio installed must support mobile device development. Express editions of Visual Studio do not support mobile device development. Visual Studio 2008 Standard Edition does not support mobile device development.

Device Runtimes

To run device applications that utilize EMDK for .NET libraries, the following device runtimes must be installed:

- Microsoft .NET Compact Framework. The following table specifies the combinations of Visual Studio and .NET Compact Frameworks supported by EMDK:

	CF 2.0 SP2	CF 3.5
Visual Studio 2005	Supported	
Visual Studio 2008	Supported	Supported

- EMDK for .NET runtime environment (symbol.all.arm.cab).

Host Runtimes

To run PC applications that utilize the RFID class libraries, the following Host runtimes must be installed:

- .NET Framework 2.0 or higher
- Symbol.RFID2.Host.dll
- RFIDControl.zip (required by RD5000. Refer to the section "Using Symbol.RFID2 Host Assembly with RD5000 Device Reader" in the ReadMe)

6 Known Issues

- Listing MC4500 as a device which supports RS507 in the Readme included in EMDK for .NET v2.7 under its section for EMDK for .NET v2.7 Release Notes is by mistake. MC4500 doesn't support RS507 or any other Bluetooth scanner. LEX700, MC67NA, VC70N0 and WT41N0 support RS507 from the list of new devices supported in EMDK for .NET v2.7.

  Also, in the sample launchers included in EMDK for .NET v2.7, the list of supported devices for ScanRSM has to include LEX700, MC67NA and VC70N0 as well. It has listed WT41N0 only from the new devices supported in EMDK for .NET v2.7.
  These mistakes have been corrected in the Readme and the sample launchers included in EMDK for .NET v2.7 Update 2.

- On MC67, Symbol.Fusion.Config.WLAN.ResetDataStore() fails when any user certificate has been installed.

Last Revised: June 11, 2013