Release Notes - EMDK for .NET v2.2 + Update1

1   Important News

End of Support for Symbol.WiressLAN assembly - The Symbol.WirelessLAN class libraries will no longer be available on devices starting with Fusion v3.20. Customers are expected to use the Symbol.Fusion assembly to access WLAN capabilities. Fusion v3.20 is expected to release on devices sometime in 2010. If you are still using the Symbol.WirelessLAN assembly in your applications, please transition to the Symbol.Fusion assembly as soon as possible.

2   Introduction

Important note: The SMDK (Symbol Mobility Developer Kit) product line is being re-branded to EMDK (Enterprise Mobility Developer Kit). This is a name change only, maintaining full functionality and backward compatibility. This change should have no impact on customer applications. Previous versions of SMDK for .NET must be removed before installing this EMDK.

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 Microsoft Visual Studio 2003, Visual Studio 2005 and Visual Studio 2008.

3   Description

1. New device support for MC95XX WM6.1, including access to the SmartBattery State Of Health in the ResourceCoordination class library and Fusion 3.00 features in the Fusion class library. The Fusion 3.00 features

include secondary IP gateway, getting/setting the IPv6 management state and resetting the IPv6 interface.

2. The RS507 ring scanner is now approved for use with MC3090, MC55, MC70, MC75, MC9090, VC5090, VC6090 as well as the previously supported WT4090.

3. New device support for MT2000 CE5.0 including a new class library for MT2000 specific features. The WPAN class library is not supported on MT2000.

4. New device support for XR400 CE5.0 (LLRP enabled) including the new RFID3 class library. RFID3 is validated for development on Windows XP only.

5. New device support for MK4000 CE5.0.

6. Rollup of previously released v2.1 update.

7. Updated Fusion class library to include new features such as:

   - Exporting/importing WLAN options
   - Exporting/importing WLAN profiles
   - Overriding/resetting WLAN user credentials
   - Getting NDIS information
   - Getting the connection status of the adapter
   - Controlling the access to the Fusion database
   - Importing PAC from a manually provisioned file
   - Getting/setting the PAC options such as auto provisioning & auto refreshing

8. Updated WPAN class library to include new features such as:

   - ClassOfDevice property in the RemoteDevice class to obtain the device class information
   - QueryClassofDevice property in the RemoteDevices class to filter a particular class of device during the discovery process

9. Updated MagStripe class library to include support for the '+' start sentinel in track3.

10. Updated Barcode class library to include the following new features:

   - DeviceType property in Barcode.Device class to provide information such as ScannerType (Imager, Camera or Laser) and TransportType (Internal, SSI and Bluetooth)
   - InterfaceParameters property in Barcode.Reader class to access parameters such as SSISpecific (BTDisconnectOnExit, ConnectionIdleTimeout) and CamScanSpecific (EnableSettingTime, LowPowerTime). The InterfaceParameters property can be accessed

before enabling the scanner also, but this is supported only for Bluetooth scanners such as RS507.

Update1 provides the following features and new support:

1. New device support for MC3100 CE6.0 and WM6.1
2. New device support for FX7400 RFID reader
3. Updated print samples to use SymbolFont instead of Microsoft font class for printing text. Using the SymbolFont class allows changing the font families and font sizes.
4. Updated power samples to use native event handling instead of the managed AutoResetEvent class. The managed AutoResetEvent class failed to raise events under all circumstances.
5. Updated all scan samples to attach the ReadNotify handler only during activation and deactivation of the form. In the previous versions, this handler was unnecessarily attached after every read operation.
6. Updated imager samples to enable over-writing the previously saved images. In the previous versions, an attempt to over-write a previously saved image file would cause an exception.

4 Contents

1. EMDK-M-020205.exe

5 Device Compatibility

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

Device	Win CE 5.0	Win CE 6.0	Win Mobile 5.0	Win Mobile 6.x
FX7400	*			
MC1000	*			
MC17	*			
MC3000	*			*
MC3100		*		*
MC55				*
MC70			*	*
MC75				*
MC9000	*		*	

MC9090	*		*	*
MC9090 RFID			*	
MC9500				*
MK500	*			
MK4000	*			
MT2000	*			
RD5000	*			
VC5090	*			
VC6090				*
WT4000	*			
XR400 Series	*			

* Supported device

6 Installation Requirements

Development PC

Install Requirements for Visual Studio.NET 2003:

- Microsoft® Windows XP (32-bit)
- Microsoft® Visual Studio.NET 2003 *
- Microsoft® Visual Studio .NET 2003 Add-on Pack
- Microsoft ActiveSync 4.1 or higher

Install Requirements for Visual Studio 2005:

- Microsoft® Windows XP (32-bit) or Microsoft® Windows Vista (32-bit)
- Microsoft® Visual Studio 2005 *
- Microsoft® Windows Mobile 5.0 SDK for PocketPC
- Microsoft ActiveSync 4.1 or higher (only for Windows XP, Vista has its own Mobile Device Center)

Install Requirements for Visual Studio 2008:

- Microsoft® Windows XP (32-bit) or Microsoft® Windows Vista (32-bit)
- Microsoft® Visual Studio 2008 *

- Microsoft ActiveSync 4.5 or higher (only for Windows XP, Vista has its own Mobile Device Center)

* 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 prepare a device to run applications that utilize EMDK for .NET libraries, the following runtime software must be installed:

- Microsoft .NET Compact Framework v1.0 SP3 or v2.0 or v3.5
  - CF1.0 SP3 is supported for development only with Microsoft Visual Studio .NET 2003.
  - CF2.0 is supported for development with Microsoft Visual Studio 2005 and 2008.
  - CF3.5 is supported only for development with Microsoft Visual Studio 2008.
- EMDK for .NET runtime environment (symbol.all.arm.cab).
- Class libraries such as MT2000, RFID2, RFID3 and WPAN require CF2.0 SP2 or higher

Host Runtimes

- Symbol.RFID2 for Host requires .NET Framework 2.0
- The remote control operations on RD5000 requires installing the RFIDControl.zip package on the device. Refer to the Usage Note Using Symbol.RFID2 Host Assembly with RD5000 Device Reader in the ReadMe.

Last Revised: November 3, 2009