
Release Notes - EMDK for Xamarin v3.0

Contents

- [Important News](#)
 - [Introduction](#)
 - [Description](#)
 - [Device Compatibility](#)
 - [Installation Requirements](#)
 - [Usage Notes](#)
 - [Known Issues](#)
 - [Part Number and Release Date](#)
-

Important News

- **EMDK for Xamarin support VS for MAC-** Now supports Visual Studio for Mac OS
- **EMDK for Xamarin NuGet Support-** Fully supports Xamarin NuGet package management.
- **Online Help:** The [EMDK for Xamarin](#) Help_documentation is now available only online. The EMDK installation will no longer install the documentation on the development computer.
- **Online Samples:** The [EMDK Samples](#) are now available only online. The EMDK installation will no longer install the samples on the development computer. The online samples can be downloaded and used on the development computer.
- **Supported Devices:** For a complete list of supported devices, visit [TechDocs](#) webpage.
- **Added support:** Zebra PS20, TC52, TC57, TC72 and TC77 devices running Android 8.1 (Oreo)
- **EMDK for Xamarin Profile Manager:** EMDK Xamarin supports Profile Manager features of MX 8.1 and MX 8.2 (details below)

Applications accessing EMDK for Xamarin APIs are required to use the Symbol.XamarinEMDK component.

Previous Announcements

- **EMDK for Xamarin support for VS2013 has been terminated-** EMDK for Xamarin v2.7 was the last version for VS2013.
- **EMDK for Xamarin support for Xamarin Studio (on Mac/Windows) has been terminated-** EMDK for Xamarin v2.7 was the last version for Xamarin Studio (On Mac/Windows)
- **EMDK for Xamarin support for VS2015 will be terminated-**EMDK for Xamarin v2.7 will be the last version for VS2015

- **Support for configuring DataWedge using EMDK Profile Manager has been deprecated** - Profile Manager capabilities categorized under Data Capture has been deprecated. Zebra recommends using DataWedge intent-based APIs to configure DataWedge profiles going forward.
- **EMDK OS update package for KitKat devices will no longer be distributed** – The EMDK for Xamarin v2.5 was the final version distributing EMDK OS update package with the PC/MAC installations for KitKat devices. For all Lollipop or higher devices, the EMDK update for a specific device will be distributed with the latest BSP or security incremental patch
- **Support for ContinuousRead class has been deprecated** - The ContinuousRead class which can be used to enable the continuous scanning has been deprecated. It is recommended to use the aimType, sameSymbolTimeout, differentSymbolTimeout of camera, imager and laser specific reader parameters.
- **Support for picklist field has been deprecated** - The picklist field used for enabling the picklist mode has been deprecated and it is replaced by the field picklistEx.
- **EMDK for Xamarin support for all KitKat (Android 4.4.3 or higher) devices has been terminated.** - The EMDK for Xamarin v2.5 was the final version distributing EMDK OS update package with the PC/MAC installations for KitKat devices. For all Lollipop or higher devices, the EMDK update for a specific device will be distributed with the latest BSP or security incremental patch
- **EMDK for Xamarin support for all Lollipop (Android 5.0 or higher) devices has been terminated.** - The EMDK for Xamarin v2.7 was the final version for all Lollipop Devices.

Introduction

The EMDK for Xamarin provides C# developers with a comprehensive set of tools to easily create powerful line of business applications for enterprise mobility devices and is designed for use with Visual Studio or Xamarin Studio. The EMDK for Xamarin includes class libraries, sample applications with source code, as well as all of the associated documentation to help your applications take full advantage of what our devices have to offer. It also includes an exclusive Profile Manager Technology within the Visual Studio and Xamarin Studio, providing a GUI based development tool to use along with Profile Manager API. This allows you to write fewer lines of code resulting in reduced development time, effort and errors.

The EMDK for Xamarin provides developers with the tools necessary for creating applications that target the enterprise mobility 'Xamarin' libraries, such as Barcode. This developer kit is designed for use with Visual Studio or Xamarin Studio with Xamarin.Android. The Xamarin Business or Enterprise license is required.

Note: For EMDK for Xamarin documentation and discussions, please visit the Launchpad Developer Community Web site at: <https://developer.zebra.com/community/android/xamarin>

Description

1. Added support for PS20, TC52, TC57, TC72, TC77, TC51, TC56, TC70x, TC75x, MC33 and VC80x Oreo (Android 8.1.0) devices.
2. Added Support for Nuget
3. Enhanced Barcode Manager API:
 - a. Added support for new USB Scanner LI3608:

- i. Added new enum under BarcodeManager.DeviceIdentifier for selecting the LI3608 USB Scanner.
 - b. Added support for new Bluetooth Scanner LI3678:
 - i. Added new enum under BarcodeManager.DeviceIdentifier for selecting the LI3678 Bluetooth Scanner.
- 4. Enhanced Notification Manager API:
 - a. Added New Identifier NotificationManager.DeviceIdentifier to identify the notification device.
 - b. Added new enum "DeviceIdentifier" to support NotificationManager.DeviceIdentifier with following values:
 - i. DEFAULT – default
 - ii. BLUETOOTH_IMAGER_RS6000 - Bluetooth Imager RS6000.
 - iii. EXTERNAL_VIBRATOR1 - External Vibrator
- 5. Support for MX 8.2 provides the following enhancements: These features will be supported on future Oreo (Android 8.1.0) devices:
 - a. UI Manager new features:
 - i. Enable/disable long press on home key
 - ii. Enable/disable date in notification Panel
 - iii. Enable/disable long press on Recent App header to control access to app info
- 6. Added support for MX v8.1 in Profile Manager. Currently these features are supported only on TC51, TC56, TC70x, TC75x, MC33 and VC80x Oreo (Android 8.1.0) devices:
 - a. Battery Manager new features
 - i. Enable/disable use of Battery Swap Mode UI.
 - ii. Enable/disable “battery charging” LED.
 - b. Bug Report Manager new features - Specify the Time to Live (time before expiration) for bug reports to be stored or sent via email or to the Cloud
 - c. Cellular Manager new features
 - i. Enable/disable user access to PLMN (controls which public land mobile network a device uses)
 - ii. Specify the MCC/MNC network PLMN LockSet Added ability to specify whether to show or hide PLMN lock UI.
 - iii. Show/hide PLMN lock UI
 - iv. Determine the status of PLMN lock UI
 - v. Enable/disable Dual SIM Standby.
 - vi. Added ability to get the status of DSDS
 - d. DHCPOption Manager new features
 - i. Enable/disable requests for a custom DHCP option from server.
 - ii. Request or disable a specified DHCP Option
 - iii. Enable/disable sending of a custom DHCP Option to server
 - iv. Send or disable a specified DHCP Option
 - v. Send a value with the specified custom DHCP Option
 - e. License Manager new features
 - i. Specify the Activation ID to return a license from the device
 - ii. Specify server friendly name for returning one or all licenses and for deleting license source
 - iii. Select the license source type to be used to return one or all licenses.
 - f. Power Manager new features
 - i. Specify an osupdate manifest xml or zip file to verify an update
 - ii. Specify whether to suppress auto-reboot following an A/B upgrade
 - iii. Added ability to specify whether to suppress auto-reboot following A/B Upgrade.
 - g. Settings Manager new features

- i. Enable/disable the slide out drawer for accessing Android system
 - h. UI Manager new features
 - i. Enable/disable Split Screen mode
 - ii. Enable/disable Do Not Disturb mode
 - iii. Enable/disable multi user mode
 - i. Wi-Fi new features
 - i. Enable/disable MAC Randomization
 - ii. Enable/disable Call Admission Control
 - iii. Enable/disable user access to Hotspot state (active/inactive)
7. Enhanced Barcode Manager API with following features. Currently these features are supported only on PS20, TC52, TC57, TC72 and TC77 Oreo (Android 8.1.0) devices:
- a. Added support for new Symbologies and Label types: GS1 Datamatrix and GS1 QR Code.:
 - i. Differentiate the label types between the GS1 Datamatrix and the Datamatrix.
 - ii. Differentiate the label types between the GS1 QR Code and the QR Code.
 - b. Added support for Digimarc decoding through a Reader Parameter:
 - i. Added new parameter digimarcDecoding in ImagerSpecific class.
 - ii. Currently this feature is supported only for Internal Imagers.
 - c. Added support for Character Set selection - The following new parameters are added to ImagerSpecific/ CameraSpecific/ LaserSpecific classes:
 - i. characterSetSelection - Sets the character set to be used to decode the returned barcode data. This is generally set to match the encoding of the physical barcode to be scanned (AUTO, ISO_8859_1, Shift_JIS, GB18030, UTF_8).
 - ii. autoCharacterSetPreferredOrder - Sets the preferred character set order to decode the barcode data when character set selection is set to "Auto". Preference order cannot be empty (UTF_8, GB2312).
 - iii. autoCharacterSetFailureOption - If the system cannot find a character set from the preferred order that can correctly decode the data, this will be used as the character set (NONE, ISO_8859_1, Shift_JIS, GB18030, UTF_8).
 - d. Added support for new Bluetooth Scanner DS2278:
 - i. Added new enum under BarcodeManager.DeviceIdentifier for selecting the DS2278 Bluetooth Scanner.
 - e. Added "PRESS_AND_SUSTAIN" AimType support for RS6000 and RS507 Bluetooth Scanners. Earlier, the feature was supported only on TC2X for Internal scanners.

Device Compatibility

Please refer to the below link for device and operating system compatibility.

<http://techdocs.zebra.com/emdk-for-xamarin/3-0/guide/about/#devicessupported>

Installation Requirements

The following software must be installed prior to using the EMDK for Xamarin.

- Microsoft® Windows 7 (32-bit and 64-bit) or Microsoft® Windows 8 (32-bit and 64-bit) or Microsoft® Windows 8.1 (32-bit and 64-bit) or or Mac OS X 10.10 or higher.
- [Java Development Kit \(JDK\)](#), v7u45 or higher.
- Visual Studio 2015, Visual Studio 2017 or Xamarin Studio 6.0, Visual Studio for Mac

Usage Notes

<http://techdocs.zebra.com/emdk-for-xamarin/3-0/guide/about/#usagenotes>

Known Issues

None.

Part Number and Release Date

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