
Release Notes - EMDK for Android v7.0

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Important News

- **EMDK installer files for Windows and Mac OS X are now distributed differently** - Starting from EMDK for Android v7.0, The EMDK Profile Manager plug-in for Android Studio is now distributed through JetBrains plugins repository. The EMDK SDK is distributed through JCenter repository. See [TechDocs](#) for complete installation instructions.
- **Supported Android OS Versions:** EMDK for Android v7.0 supports Oreo (Android 8.1.0), Nougat (Android 7.1.2) and Marshmallow (Android 6.0.1) OS versions.
- **Supported Devices:** For a complete list of supported devices, visit [TechDocs](#) webpage.
- **EMDK for Android support for all Lollipop (Android 5.1.1) devices has been terminated** - EMDK for Android v6.9 was the final version supporting Lollipop (Android 5.1.1) devices. Starting from EMDK for Android v7.0, only the Marshmallow (Android 6.0.1) or higher devices are supported.
- **EMDK for Android support for all Marshmallow (Android 6.0.1) devices will be terminated** - EMDK for Android v7.0 will be the final version supporting Marshmallow (Android 6.0.1) devices. All future EMDK versions will support Nougat (Android 7.1.2) or higher devices only.

Previous Announcements

- **EMDK for Android support for all KitKat (Android 4.4.x) devices has been terminated** - EMDK for Android v6.6 was the final version supporting KitKat (Android 4.4.3 or higher) devices. Starting from EMDK for Android v6.7, only the Lollipop or higher devices are supported.
- **EMDK OS update package for KitKat devices will no longer be distributed** - The EMDK for Android v6.6 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 LifeGuard patch.
- **EMDK for Android support for all Jelly Bean (Android 4.1.2) and TC70 KitKat (Android 4.4.2) BSP version 112414 devices has been terminated** - EMDK for Android v5.0 was the final version supporting these devices.
- **EMDK for Android support for SecureNFC APIs has been deprecated** - The EMDK SecureNFC APIs which allow applications to perform secure communications with the NFC tags such as MifareDesfire, MifarePlus SL3 using the Secure Access Module (SAM) has been deprecated.
- **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. Please refer to DataWedge [TechDocs](#) web page for more information.
- **EMDK for Android support for Payment APIs has been terminated** - The EMDK for Android v5.0 is the final version that supports Payment APIs.
- **Support for ProfileConfig class has been deprecated** - The ProfileConfig class which can be used to access the profile data has been deprecated. It is recommended to use the [name-value pair](#) function of Profile Manager feature. The Profile XML can also be directly modified. Refer to the [Clock Sample](#) for information on modifying Profile XML data.
- **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.
- **Online Help:** The [EMDK for Android 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.

Introduction

EMDK for Android provides developers with a comprehensive set of tools to easily create powerful line-of-business applications for enterprise mobility devices. Designed for use with Google Android Studio, EMDK for Android includes enterprise mobility 'Android' class libraries such as Barcode,

sample applications with source code, as well as all of the associated documentation to help your applications take full advantage of the capabilities that Zebra devices have to offer. It also embeds the exclusive Profile Manager technology within the Android Studio IDE, providing a GUI-based development tool designed specifically for Zebra devices. This allows you to develop apps more quickly with fewer lines of code and with less effort and fewer errors.

Description

1. Added support for PS20, TC52, TC57, TC72, TC77, TC51, TC56, TC70x, TC75x, MC33 and VC80x Oreo (Android 8.1.0) devices.
2. EMDK installer files for Windows and Mac OS X are now distributed differently. See [TechDocs](#) for complete installation instructions.
 - The EMDK Profile Manager plug-in for Android Studio is now distributed through JetBrains plugins repository.
 - The EMDK SDK is distributed through JCenter repository.
3. Support for MX v8.2 provides the following enhancements. Currently these features are supported only on TC51, TC56, TC70x, TC75x, MC33 and VC80x Oreo (Android 8.1.0) devices:
 - 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
4. Support for MX v8.1 provides the following enhancements. Currently these features are supported only on Oreo (Android 8.1.0) devices:
 - Battery Manager new features:
 - i. Enable/disable use of Battery Swap Mode UI
 - ii. Enable/disable “battery charging” LED
 - Bug Report Manager new feature:
 - i. Specify the Time to Live (time before expiration) for bug reports to be stored or sent via email or to the Cloud
 - 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
 - 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
 - o DHCP Option 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
 - o 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
 - o 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
 - o Settings Manager new features:
 - i. Enable/disable the slide out drawer for accessing Android system settings
 - o UI Manager new features:
 - i. Enable/disable Split Screen mode
 - ii. Enable/disable Do Not Disturb mode
 - iii. Enable/disable multi user mode
 - o 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)
5. Enhanced Barcode Manager API with following features. Currently these features are supported only on Oreo (Android 8.1.0) devices:
- o 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.
 - o 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.
 - o 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).
 - o Added support for new Bluetooth Scanner DS2278:
 - i. Added new enum under BarcodeManager.DeviceIdentifier for selecting the DS2278 Bluetooth Scanner.
 - o Added "PRESS_AND_SUSTAIN" AimType support for RS6000 and RS507 Bluetooth Scanners. Earlier, the feature was supported only on TC2X for Internal scanners.
6. Added PersonalShopper API support for PS20 device. Earlier, the feature was supported only on MC18.
- o Cradle API support
 - o Diagnostic API support
7. Terminated EMDK for Android support for all Lollipop (Android 5.1.1) devices.
8. Removed ProfileDataCaptureSample1 from EMDK Samples. Configuring DataWedge using EMDK Profile Manager has already been deprecated.
9. Removed SecureNFCSample1 from EMDK Samples. The SecureNFC APIs have already been deprecated.
10. Added support for TC20 Android Oreo 8.1.0 devices. **(Updated February 2019)***
11. Added support for [Android Studio](#) v3.3. **(Updated February 2019)***
12. Added support for TC25 Android Oreo 8.1.0 devices. **(Updated March 2019)***
- * 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.

Device Compatibility

For a complete list of supported devices, visit the [TechDocs](#) webpage.

Installation Requirements

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

- 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 Microsoft® Windows 10 (32-bit and 64-bit)
- [Java Development Kit \(JDK\)](#) v7u45 or higher
- [Android Studio](#) v2.2.x or higher. EMDK for Android has been validated with Android Studio v2.2.x, v2.3.x, v3.0, v3.1 and v3.3.

Device Updates

EMDK OS update package for KitKat devices will no longer be distributed - The EMDK for Android v6.6 was the final version distributing EMDK OS update package with the Windows and Mac OS X 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 LifeGuard patch.

Usage Notes

For a complete list of usage notes, visit the [TechDocs](#) webpage.

Known Issues

1. When using characterSetSelection as Auto in Barcode API, decode data may return junk characters instead of empty, for some barcodes which the decoding character set is not listed in either autoCharacterSetPreferredOrder or autoCharacterSetFailureOption parameters. This issue will be fixed in a future version.

Part Number and Release Date

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