EMDK for Android 7.6, 7.5
Release Notes – Sept., 2020

Highlights

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Sept., 2020 UPDATE:
- **Support for MX 10.2 adds many new features**
    - • Requires updating EMDK Android Studio plug-in to v7.6.1

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- **Barcode API adds OCR Symbologies and other significant enhancements**
- **Support for MX 9.3 and MX 9.2 adds many new features**
- **Support for Unique Device Identification (UDI) barcodes (GS1, HIBCC and ICCBBA) has been deprecated in the Barcode API**

Device Support

- No device support added; support remains the same as in EMDK for Android 7.4

See all supported devices

New in EMDK for Android 7.6

Support for MX v10.2

- Beacon Manager new CSP:
    - Controls Bluetooth Low Energy beacon on mobile computers
- Access Manager new features:
    - Enter the Token received from the caller
- Bluetooth Manager new features:
    - Configure single pairing of accessories
    - Define trusted devices
    - Enhancements to silent pairing rules
- Clock new features:
    - Allows date and time entered in local or Universal Coordinate format
- Display Manager new features:
    - Control automatic screen rotation
    - Enable/disable adaptive brightness
    - Set device brightness level
- KeyMapping Manager new features:
    - Support for additional key codes
- License Manager new features:
    - Supports URI-based license sources
- PowerKey Manager new features:
    - Set touch mode options

- Power Manager new features:
    - Enable/disable/configure battery saver options
- Touch Manager new features:
    - Support and control latest Zebra devices
- UI Manager new features:
    - Show/hide percentage of battery charge on screen
- Wi-fi new features:
    - Configure Fine Timing Measurement
    - Control encryption options

Support for MX v9.3

- App Manager new features:
    - Ability to enable background data/unrestricted data usage per application
- Bluetooth Manager new features:
    - Silent pairing using MAC and PIN
- GPRS Manager new features:
    - IPv4/IPv6 protocol support
- KeyMapping Manager new features:
    - Grey key & W1/W2 button support

Enhanced Barcode Manager API

- Added support for new Symbology and FinnishPostal4S label type
- Added new parameter in ScannerConfig.DecoderParams.DutchPostal:
    - dutchPostal3S - enable/disable decoding KIX 3S barcodes of Dutch Postal
- Added new parameter in ScannerConfig.MultiBarcodeParams:
    - reportDecodedBarcodes – enable/disable reporting decoded barcode data in a single scan session irrespective of the configured barcode count

Resolved Issues

- None

Usage Notes

- None

Known Issues

- None
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New in EMDK for Android 7.5

Note: EMDK for Android 7.5 was not publicly released. For devices containing the EMDK 7.5 runtime, please refer to the EMDK-A 7.5 About page on TechDocs for new feature details.

Support for MX v9.2

- Power Manager new features:
  - Controls individual hardware wake-up methods (buttons)
- Display Manager new features:
  - Controls device font and display size
- Access Manager new features:
  - Offers enhanced device visibility and control while remote troubleshooting
  - Prevents one application from stopping another without explicit permission
- Cellular Manager new features:
  - Subsidy lock implementation
- Keymapping Manager new features:
  - Intent Extra support
  - Rotate/Minus key support

Enhanced Barcode Manager API

- Added support for new Symbologies OcrA, OcrB, MICRE13B, USCurrency and Label type OCR:
  - enum OcrAVariant in ScannerConfig - Allows selection of OcrA font variants
  - enum OcrBVariant in ScannerConfig - Allows selection of OcrB font variants
  - ocrAVariant parameter in ScannerConfig.DecoderParams.OcrA to set OcrA font variant. Font variant sets a processing algorithm and default character subset for the given font. Selecting the most appropriate font variant optimizes performance and accuracy.
  - ocrBVariant parameter in ScannerConfig.DecoderParams.OcrB to set OcrB font variant. Selecting the most appropriate font variant optimizes performance and accuracy.
  - OcrParams class in ScannerConfig adds following parameters to configure decoding OCR barcodes:
    - inverseOcr - Changes the OCR behavior for white or light words on a black or dark background.
    - ocrLines – Allows selection of the number of OCR lines to decode. Supports OCR variants such as those for visas, TD1, and TD2 ID cards that automatically set the appropriate number of OCR lines.
    - maxCharacters – Allows selection of the maximum number of OCR characters (including spaces) per line to decode. Strings of OCR characters greater than the maximum are ignored.
    - minCharacters – Allows selection of the minimum number of OCR characters (not including spaces) per line to decode. Strings of OCR characters less than the minimum are ignored.
    - quietZone - Changes the quiet zone to be considered with OCR capture.
    - template - Changes the template to be used with OCR capture. Templates are used to precisely match scanned OCR characters to a desired input format. Carefully constructing an OCR template eliminates mis-decodes.
    - orientation - Specifies the orientation of an OCR string to be read

- subset – Allows selection of a custom group of characters in place of a preset font variant
- checkDigitModulus - Sets the check digit modulus value for OCR Check Digit Calculation
- checkDigitMultiplier - Sets OCR check digit multipliers for the character positions.
- checkDigitValidation - Allows selection of check digit validation scheme
- New PresentationModeParams class in ScannerConfig.ReaderParams.ReaderSpecific.ImagerSpecific to set presentation mode behavior:
  - sensitivity - Allows the user to set the value for sensitivity during the scanning session
  - enum PresentationModeSensitivity in ScannerConfig - Allows selection of values for sensitivity between LOW, MEDIUM and HIGH.
- Added support for new Bluetooth scanner RS5100:
  - New BarcodeManager.DeviceIdentifier enum for selection of the RS5100 Bluetooth scanner

Enhanced Notification Manager API

- Added support for Bluetooth scanner RS5100:
  - New NotificationManager.DeviceIdentifier enum for selection of the RS5100 Bluetooth scanner

Deprecations

Support for Unique Device Identifier (UDI) barcodes (GS1, HIBCC and ICCBBA) had been temporarily suspended in EMDK for devices running early versions of Android 10. UDI support is restored in these products via operating system updates for Android 10.

Resolved Issues

- None

Usage Notes

- None

Known Issues

- None

Important Links

- Installation and setup instructions
- See all supported devices

About EMDK for Android

EMDK for Android provides developers with a comprehensive set of tools to easily create a powerful line of business applications for enterprise mobility devices and is designed for use with Google's Android Studio. EMDK

for Android includes enterprise mobility Android class libraries such as Barcode, sample applications with source code, as well as all the associated documentation to help applications take full advantage of the capabilities that Zebra devices have to offer. It also embeds the exclusive Profile Manager technology within Android Studio IDE, providing a GUI-based development tool designed specifically for Zebra devices. This allows fewer lines of code, resulting in reduced development time, effort and errors.