Android SDK

Release Notes

Barcode SDK
Ver. 1.17.00

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Revision History

Change	Date	Description
Ver.1.04.00	2017/11/02	1st Release
Ver.1.05.00	2017/11/10	SDK v1.05.00 Release
Ver.1.09.00	2018/03/09	SDK v1.09.00 Release
Ver.1.11.00	2018/05/07	SDK v1.11.00 Release
Ver.1.13.00	2018/07/30	SDK v1.13.00 Release
Ver.1.13.01	2018/08/22	SDK v1.13.01 Release
Ver.1.13.02	2018/09/10	SDK v1.13.02 Release
Ver.1.13.03	2018/10/01	SDK v1.13.03 Release
Ver.1.14.00	2018/11/08	SDK v1.14.00 Release
Ver.1.15.00	2018/12/26	SDK v1.15.00 Release
Ver.1.15.01	2019/01/14	SDK v1.15.01 Release
Ver.1.16.00	2019/04/05	SDK v1.16.00 Release
Ver.1.16.01	2019/06/10	SDK v1.16.01 Release
Ver.1.16.02	2019/08/13	SDK v1.16.02 Release
Ver.1.16.03	2019/09/27	SDK v1.16.03 Release
Ver.1.17.00	2019/12/25	SDK v1.17.00 Release

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Table of Contents

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1. Requirements

■ Supported Operating Systems

The requirements for APULSETECH Android SDK are as shown below.

① Windows 7/8/10 or newer recommended
② Ubuntu Linux 14.04 LTS or newer recommended
③ OSX

■ Supported Hardware

① α811 Android handheld reader(local execution)
② ARM 32bit v7a and 64bit v8a architecture-based Android devices
with 5.0 or above(remote connection support with **α711** and **α811)**

■ Supported IDE Environments.

① Eclipse Neon for Android Application Developers with Android SDK
② Android Studio 3.0 or newer recommended

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2. Release History

For details about the changes in each release, please refer to the summary of version history.

■ **V1.17.00**

New Features
- Added USB bulk connection (accessory mode) support.
- Added USB HID mode support.

Issue Fixes
- Changed the file path of Excel export. /sdcard/BarcodeData/BarcodeList_YYMMDDhhmmss.xls
- Resolved the Bluetooth device scan issue after waking up from sleep.
- Fixed minor errors and improved performance.
- Support additional remote connection interfaces.
  - Supported interfaces for remote connection, refer to the below table.

		Remote Manager	Client OS		
			Android	Windows	iOS
Serial		O	X	O	X
USB to Serial		O	O[1]	O	X
USB	Remote	O	O	To be supported[3]	TBD
	HID	O	O	To be supported[2]	TBD
Bluetooth	BLE	O	O	To be supported[2]	To be supported
	SPP(Socket)	O	O	O	X
WiFi	Socket	O	O	O	To be supported
	P2P(Direct) + Socket	O	△ Search only. Connection to be supported	O	X

＊ Remark
1. Supported cables refer to the below table.
2. Compatibility problem of BLE connection control between Android and Windows.
3. To be supported by Windows SDK.

■ **V1.16.03**

New Features

Issue Fixes
- Updated 2D barcode libraries.

■ **V1.16.02**

New Features
- Added α711 remote connection support.

Issue Fixes

■ **V1.16.01**
New Features

Issue Fixes
● Changed the file path of excel export in the demo app.
● Updated SDK documents.

■ **V1.16.00**
New Features

Issue Fixes
● Replaced audio effect resources.

■ **V1.15.01**
New Features

Issue Fixes
● Improved multi-connection handling of BLE remote connection.
● Improved error handling of remote connection.
● Improved touch control of expanding and collapse for operation setting regions in the demo app.

■ **V1.15.00**
New Features
● Added heartbeat packet ping and timeout handling for remote connection.
● Added excel export for barcode and tag data.
● Added multi language support for demo apps.
    - Currently supported languages
      English, Korean, Chinese, Japanese.
    - The remaining resources of barcode symbology configuration will be translated in the future release.
● Support additional remote connection interfaces.
    - Supported interfaces for remote connection, refer to the below table.

		Remote Manager	Client OS		
			Android	Windows	iOS
Serial		O	X	O	X
USB to Serial		O	O[1]	O	X
USB	Remote	To be supported[3]	To be supported[3]	To be supported[3]	X
	HID	To be supported[4]	To be supported[4]	To be supported[4]	X
Bluetooth	BLE	O	O	To be supported[2]	To be supported
	SPP(Socket)	O	O	O	X
WiFi	Socket	O	O	O	To be supported
	P2P(Direct) + Socket	O	△ Search only. Connection to	O	X

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			be supported		

＊ Remark
4. Supported cables refer to the below table.
5. Compatibility problem of BLE connection control between Android and Windows.
6. Available after the device driver is supported.

- Multiple connection support for device scan and query[1].

		Multiple clients → Device	Multiple devices → Client
Serial		X^2	X^2
USB to Serial		X^2	X^2
Native USB		X^2	X^2
Bluetooth	BLE	O	O
	SPP(Socket)	O	O
WiFi	Socket	O	O
	P2P(Direct) + Socket	O	O

＊ Remark
1. Multiple connections are only available for device scan and query.
   The multiple connections to function modules including barcode and RFID are not allowed.
2. The single connection only due to its H/W interface limitation.

- Supported baud rates for USB to Serial interface, refer to the below table.

	Supported chip	Supported bps
FTDI	FT231X series	TBD
	FT232R	TBD
Silicon Labs	CP210X series	TBD
Prolific	PL2303	115200, 230400, 460800, 921600
QinHeng	CH340	TBD

Issue Fixes

- Updated 2D barcode libraries.
- Improved error control of the remote connection.
- Changed the default timeout value of remote connection to 40s the same as a heartbeat.
  → In remote scanner settings, select and test proper timeout value.
- Improved big data processing performance of demo apps.
- Applied miscellaneous bug fixes and improvements.

■ **V1.14.00**

New Features

- Added sound volume control support.
- Added loading screen for initialization in the demo app.
- The setting region can be hidden or shown by demand in the demo app.
- Added data sort support in the demo app.
- HID demo also supports remote connection with clipboard copy/paste.
- Added HID clipboard demo app.
- Support additional remote connection interfaces.
  - Supported interfaces for remote connection, refer to the below table.

	Remote Manager	Client OS		
		Android	Windows	iOS
Serial	O	X	O	X

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USB to Serial		To be supported	O^1	O	X
Bluetooth	BLE	O	O	To be supported	To be supported
	SPP(Socket)	O	O	To be supported	X
WiFi	Socket	O	O	To be supported	To be supported
	P2P(Direct) + Socket	O	△ Search only. Connection to be supported	To be supported	X

∗ Remark
1. Supported cables refer to the below table.

- multiple connection support for device scan and query[1].

		Multiple clients → Device	Multiple devices → Client
Serial		X^2	X^2
USB to Serial		X^2	X^2
Bluetooth	BLE	△ Supported. But needs improvements.	O
	SPP(Socket)	To be supported	O
WiFi	Socket	To be supported	O
	P2P(Direct) + Socket	X	△ Search only. Connection to be supported.

∗ Remark
1. Multiple connections are only available for device scan and query.
   The multiple connections to function modules including barcode and RFID are not allowed.
2. The single connection only due to its H/W interface limitation.

- Supported baud rates for USB to Serial interface, refer to the below table.

	Supported chip	Supported bps
FTDI	FT231X series	TBD
	FT232R	TBD
Silicon Labs	CP210X series	TBD
Prolific	PL2303	115200, 230400, 460800, 921600
QinHeng	CH340	TBD

Issue Fixes
- Updated 2D barcode libraries.
- Improved error control of the remote connection.
- Improved search and connection stability of the remote device.
- Fixed binding leaks of HID services.
- Applied miscellaneous bug fixes and improvements.

■ **V1.13.03**
New Features
- Added Inverse 1D barcode setting.

Issue Fixes

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■ **V1.13.02**

New Features

Issue Fixes
- Updated audio resources for demo apps.

■ **V1.13.01**

New Features

Issue Fixes
- Updated Remote Manager app.

■ **V1.13.00**

New Features
- Added trigger control option to demo app.
- Added multi-event listener support.

Issue Fixes
- Removed vibrator setting option from the barcode demo app.
- Revised settings not to be allowed to change while the operation is running
- Fixed some crash issues of the demo app.
- Resolved a remote response parsing error.

■ **V1.11.00**

New Features
- Added remote device connection support through serial, BLE and WiFi for the barcode scanner.

Issue Fixes
- Fixed the parameter handling issues of symbology settings.
- Improved handling of some UI widget controls in demo apps.
- Added extra improvements and fixes.

■ **V1.09.00**

New Features
- Added handsfree and auto mode support.
- Renewed demo apps.

Issue Fixes
- Fixed random crash issues while executing scanner operations.

■ **V1.05.00**

New Features

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Issue Fixes
- Resolved the value reset issue of barcode settings which is previously configured.

■ **V1.04.00**
New Features
- First release.

Issue Fixes

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3. Customer Support

1) Technical Support

Please visit the APULSETECH website for technical support. You can report your issues and get their answers. Also, you can get all the latest information and updates for products and software.

2) Feedback

Please send us your feedback about APULESTECH products.

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