Android SDK

Release Notes

Barcode SDK Ver. 1.20.02





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Change	Date	Description
Ver.1.04.00	2017/11/02	1 st 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
Ver.1.17.10	2020/02/24	SDK v1.17.10 Release
Ver.1.17.11	2020/03/13	SDK v1.17.11 Release
Ver.1.18.00	2020/04/13	SDK v1.18.00 Release
Ver.1.19.00	2020/05/29	SDK v1.19.00 Release
Ver.1.20.00	2020/07/10	SDK v1.20.00 Release
Ver.1.20.01	2020/07/22	SDK v1.20.01 Release



Ver.1.20.02 2020/08/10 SDK v1.20.02 Release	Ver.1.20.02 2020/08/1	SDK v1.20.02 Release
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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 α 711 and α 811)

Supported IDE Environments.

- ① Eclipse Neon for Android Application Developers with Android SDK
- 2) Android Studio 3.6 or newer recommended



2. Release History

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

■ V1.20.02

New Features

- Added scan status synchronization support between the remote device and the scan screen in a barcode demo app.
- Added history list support for remote devices.

Issue Fixes

- Fixed the connection hang or fail issue if try to connect a searched remote device before device searching finishes completely.
- Changes related to remote manager app.
 - Added OS update function.
 - Disabled TTS notifications for interface connection.
 - Blocked WPS key if WiFi interface is disabled or interface mode is not WiFi mode(support ed devices only including α 711).
 - Added function key option support for H/W option extension(supported devices only including α 711).
 - Added USB HID remote interface option support for H/W option extension.
 - Improved enabled modes and default mode configuration handling depends on the changes of remote interface options in H/W option extension.
 - Added device wake up support from sleep mode when connecting barcode scanner or R FID reader with Bluetooth interface.

■ V1.20.01

New Features

Issue Fixes

- Fixed the Null Exception issue of handling Application class name in LocalDBStatusH elper.
- Changed remote manager app not to set system volume with own volume in the st and alone device including $\alpha 811$ and etc. (CLI issue).

■ V1.20.00

New Features

- Added administrator setting support.
- Added remote setting event support.
 - Barcode: Currently n/a. Scan mode will be supported in the future if needed.
 - RFID: Currently inventory mode and RF power are supported.
- Applied the changes of α 711 I/O switch (Remote Manager).

- Improved effect sound volume (not system volume) control and now it's controlled s
 eparately. → Only available in administrator mode.
- Improved the error handling of remote commands.



■ V1.19.00

New Features

- Added remote device key event support.
- Added sound and vibration support while barcode scan and RFID inventory (Remote Manager).
- Added device name changing support (Remote Manager).

Issue Fixes

- Fixed the overflow issues related to remote packet parameters.
- Improved USB connection handling.
- Improved the display of remote device name.
- Added API annotations.
- Improved the query for local app run state with multiple active local apps (Remote Manager).

■ V1.18.00

New Features

- Added USB charging support for the attached client device by USB interface(supported devices only including α 711).
- Fixed the malfunction issue of barcode and RFID when the operation mode is switched from USB mode to USB HID mode after a remote client is connected and disconnected once(supported devices only including α711).
- RFID power control up/down keys act as volume up/down keys while RFID is not activat ed(supported devices only including α 711).

Issue Fixes

- Improved barcode scanner and RFID reader connection switching control between lo cal and remote.
- Improved remote packet handling.

■ V1.17.11

New Features

Issue Fixes

• Applied different permission for a contentProvider as per each demo and customer app.

■ V1.17.10

New Features

- Added barcode scanner and RFID reader connection switching support between local and remote.
- Added contentProvider support to query the execution state of barcode scanner and RFID reader in local and remote.

Issue Fixes

Minor issue fixes.



■ 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.

		Domoto Managar	Client OS		
		Remote Manager	Android	Windows	iOS
Serial		0	Χ	0	Χ
USB	to Serial	0	O ¹	0	Χ
LICD	Remote	0	0	To be supported³	TBD
USB —	HID	0	0	To be supported ²	TBD
Bluetooth	BLE	0	0	To be supported ²	To be supported
	SPP(Socket)	0	0	0	Χ
	Socket	0	0	0	To be supported
WiFi	P2P(Direct) + Socket	0	Δ Search only. Connection to be supported	0	Х

- * 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 α 711 remote connection support.

Issue Fixes

■ V1.16.01

New Features



- 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 арр.

■ 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.

		Domoto Managar	Client OS		
		Remote Manager	Android	Windows	iOS
Serial		0	Χ	0	Χ
USB to Serial		0	O ¹	0	Χ
LICD	Remote	To be supported ³	To be supported³	To be supported³	X
USB HID	HID	To be supported ⁴	To be supported⁴	To be supported ⁴	Χ
Bluetooth	BLE	0	0	To be supported ²	To be supported
	SPP(Socket)	0	0	0	Χ
	Socket	0	0	0	To be supported
WiFi	P2P(Direct) + Socket	0	△ Search only. Connection to be supported	0	X

- - 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 query¹.

		Multiple clients → Device	Multiple devices → Client
Serial		X ²	X ²
USB to Serial		X ²	X ²
Native USB		X ²	X ²
Pluotooth	BLE	0	0
Bluetooth	Bluetooth SPP(Socket)	0	0
	Socket	0	0
WiFi	P2P(Direct) + Socket	0	0

- * Remark
 - 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
FIDI	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.

		Denosta Managar		Client OS		
		Remote Manager	Android	Windows	iOS	
Serial		0	Χ	0	Χ	
USB to Serial		To be supported	O ¹	0	Χ	
Dlustaath	BLE	0	0	To be supported	To be supported	
Bluetooth	SPP(Socket)	0	0	To be supported	Χ	
	Socket	0	0	To be supported	To be supported	
WiFi	P2P(Direct) + Socket	0	∆ Search	To be supported	X	



only.	
Connection	
to be	
supported	

* Remark

1. Supported cables refer to the below table.

multiple connection support for device scan and query¹.

		Multiple clients → Device	Multiple devices → Client	
Serial		X ²	X ²	
USB to Serial		X ²	X ²	
Bluetooth	BLE	Δ Supported. But needs improvements.	0	
SPP(Socket)		To be supported	0	
	Socket	To be supported	0	
WiFi	P2P(Direct) + Socket	X	Δ Search only. Connection to be supported.	

* Remark

- 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
ETDI	FT231X series	TBD
FTDI	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

■ V1.13.02

New Features



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

Issue Fixes

• Resolved the value reset issue of barcode settings which is previously configured.



■ V1.04.00

New Features

• First release.



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.

