

Android Printing SDK V1.60

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NEW IN THIS RELEASE

- Support Honeywell Dolphin 75e, CT50 and CN51 computers with Android 6.0.
- Added Bluetooth text printing support for the 6824 printer.

VERSION HISTORY

Version	Description
1.60	<ul style="list-style-type: none">• Fixed Android 6.0 compatibility issues.• Updated the Print Service and samples target API level to 23. See TIPS AND TRICKS for more information.• Updated the sample apps to use printing APIs that do not require accessing the external storage.• Added 6824 printer settings in printer_profiles.json.
1.50	<ul style="list-style-type: none">• Added new getStatus method to the LabelPrinter and LinePrinter classes to query the printer status.
1.40	<ul style="list-style-type: none">• Renamed the Java API package names. The Java classes that were in the "com.intermec.print" and "com.intermec.print.lp" packages were moved to the "com.honeywell.mobility.print" package. Note: Due to the API package name changes, it is not backward compatible with previous releases. However, it will work with previous versions of the Print Service as long as the requested features are supported by the Print Service.• Changed the package names of the LabelPrinterSample and the LinePrinterSample.
1.30	<ul style="list-style-type: none">• Added new writeBarcode method to the LinePrinter class to support the printing of Code 39 and Code 128 bar codes to receipt printers.• Added the new LabelPrinter class to provide methods for printing to label printers.• Added new writeGraphicBase64 method to the LinePrinter class to support printing graphics specified as a Base64 (MIME) encoded string.• Added new startFileEcho and stopFileEcho methods to enable/disable the file echo debugging feature.• Enhanced the LinePrinter constructor to also accept a JSON string containing commands and attributes settings (as an alternative to the JSON file it accepted in the initial release).• Made several timing adjustments to the printer commands and attributes file to resolve issues with printing graphics on certain printers.• Fixed a Bluetooth connection issue on Honeywell Dolphin 70e Black devices.• Fixed the Android 4.4 (KitKat) external storage issue that was causing problems accessing the printer commands and attributes file on newer Android devices.• Fixed an issue with the LinePrinter.write method that was causing it to corrupt byte arrays if any of the bytes had a value greater than 0x7F.
1.00	<ul style="list-style-type: none">• Initial Release

SUPPORTED PRINTERS

- Receipt printers – PR2, PR3, PB21, PB31, PB42, PB51, and 6824.
Note: Limited support for 6824 printers was added to the 1.60 release for Bluetooth text printing only. It requires Print Service version 1.50 or above.
- Label printers – PB22, PB32 and PB50.

REQUIREMENTS

- Print Service is required to support the Java Printing API. Print Service is preinstalled on the Honeywell Dolphin 75e, CT50 and CN51 computers.
- CN51 with Android 4.2.2 requires an update to the LinePrintService/Print Service in order to support the new features in the 1.30 release. There are two options to update the service:
 1. Install the LinePrintService-release.apk using the “adb install” command with the “-r” option to update the pre-installed version. Reboot the computer after the APK installation.
 2. Contact Product Support to obtain the service release SR14102800_PRT_CN51ANDROID_ALL which includes an OTA package for CN51 Android version 1.30.05.23 and 1.30.06.23. Follow the instructions below to apply the OTA update:
 - i. Copy SR14102800_PRT_CN51ANDROID_ALL.zip to the internal storage, or to an installed microSD card. The zip file can also be copied to a microSD card and then inserted into the CN51.
 - ii. Start the Settings app, and tap “About phone” > “System updates”.
 - iii. Tap the file name and then tap “OK”. The update begins. When the update is complete, the computer will restart.
- Honeywell Android computers such as the Dolphin 70e require the installation of the LinePrintService-release.apk to support printing.

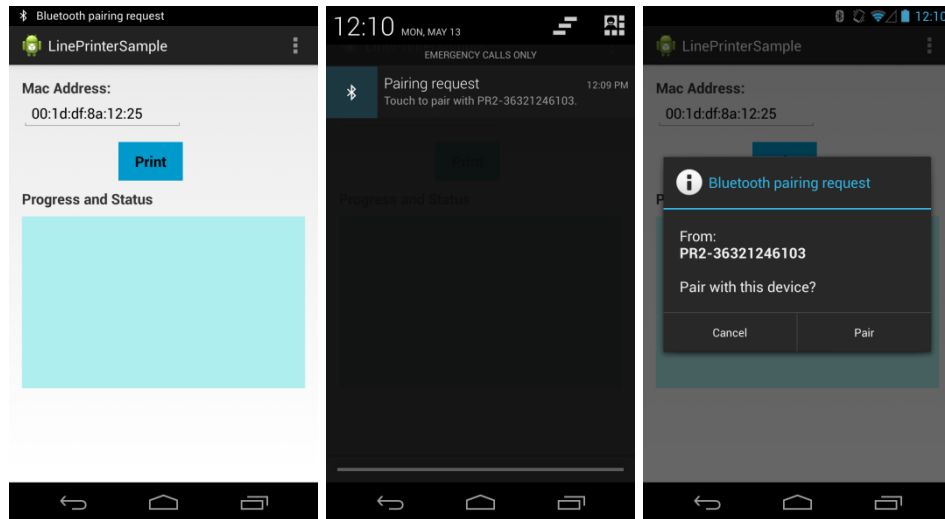
Notes:

1. You may install LinePrintService-release.apk on third party Android computers but they are not officially supported. The Android computer needs to have a Bluetooth radio and API level 10 or greater.
2. LinePrintService-release.apk is included in the “honeywell-android-printing-sdk\libs\armeabi” folder of the release zip file.

TIPS AND TRICKS

- The target API level of the Print Service was updated to 23 in release 1.60. This may affect the existing applications if it runs on Android 6.0 or greater and uses printing APIs that require access to the external storage. The Print Service will not be granted storage permissions automatically. The user may grant the permission in Settings > Apps > Print Service > Permissions > Storage, or you may update your application to use alternative printing APIs that do not require storage permission. See the updated SDK sample apps for an example.
- To work around pairing problems with PR Series printers, remove the pairing via the Android Settings Bluetooth menu.

- Some pairing requests may be harder to see than others. If you see the “Bluetooth pairing request” notification (usually accompanied by a sound), open the notification drawer by pulling down the notification bar and select **Pairing request** in the drawer to display the pairing request prompt. Press **Pair** to pair the printer with the device.



- To install apks with the Android Debug Bridge see the Android Developer documentation.
 - <http://developer.android.com/tools/help/adb.html>
 - <http://developer.android.com/tools/building/building-eclipse.html>
 - <http://developer.android.com/tools/building/building-commandline.html>

KNOWN ISSUES

- PR2 printers lose Bluetooth link keys when manually suspended, powered down, or removing the battery. This can cause Bluetooth connection failures. Remove the pairing per the tips section in this document.
- Print jobs to PB50/PB51 printers running firmware version 11.5.2 are dropping lines at the end of the job. New line spacing also seems to be variable height. When printing receipts from an Android device, use either the ESC/P only firmware version 11.4.0 or a multi-language version that is newer than 11.5.2.