Bluetooth Printer Management Demonstrate it with SOTI MobiControl and Printer Profile Manager Enterprise

Revision 5

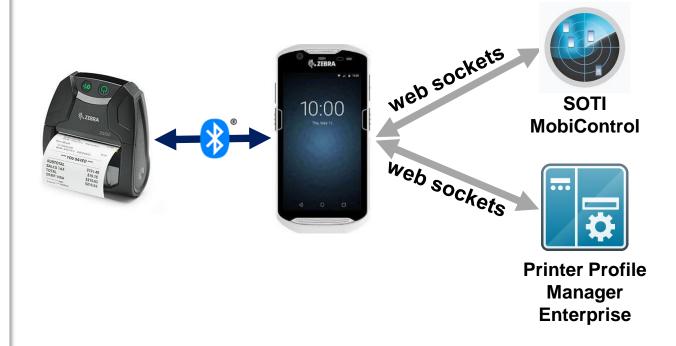
AGILITY VISIBILITY SECURITY



Why Bluetooth Printer Management

Project Goals

- Create an industry first solution that allows printers to be managed via Bluetooth, in or outside 4 walls.
- Enable management of the 40% of our Mobile printers that are connected to a handheld via Bluetooth (*Visibility, Management*).
- Users can view real-time printer status, download objects, retrieve content from printer, update printer OS as needed with Bluetooth connected Link-OS printers.
- Ability for IT staff to manage Bluetooth printers from SOTI MobiControl or Printer Profile Manager Enterprise by using an Android device as a gateway.
- Enhance the ZQ300 series printer release, by timing Bluetooth Printer Management to release in association with ZQ300 series.





Bluetooth Printer Management – how it works

Install Applications





10:00 |

Connect

Printer → Android → MDM





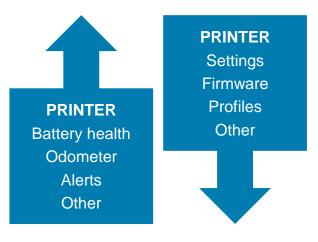






Manage Printer settings, status, OS









Before you start

- Our Cloud based demo instances of SOTI MobiControl and Printer Profile Manger Enterprise (PPME) will be used in this demo.
 - Rules and profiles have been prepared in MobiControl for this demo.
 - Resources have been added to Printer Profile Manager Enterprise for this demo.
 - Demos on customer specific instances require the customer's weblink URL to be set in Bluetooth
 Connector and configuration of any specific network access requirements.
- It's recommended that firmware or large file downloads are not performed during the demo as they can take 15 minutes or longer.
- In Android 6.0 and later, you are requested to allow permissions at runtime rather than during installation as in previous versions of Android.
- Detailed usage of the SOTI MobiControl and Printer Profile Manager Enterprise features are beyond the scope of this demo.



Requirements for this demo

- Android device running Android 4.4 7.1
- Bluetooth capable Link-OS printer with firmware version x.19.13z or later.
 - Version x.20.01z or later is recommended.
- A WiFi or cellular data connection from the Android device to the MDM.
- Browser capable device to login to the MDM console.



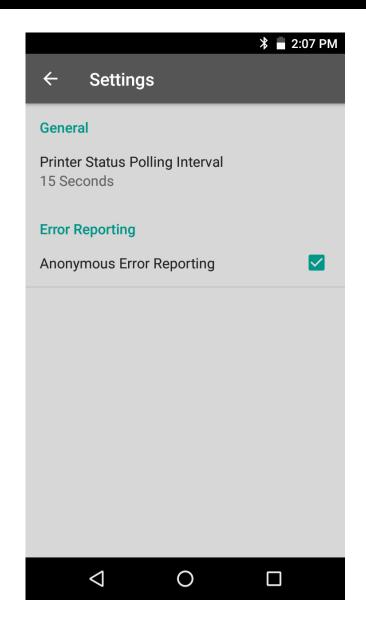
Prepare your Android device

- ✓ Install both the Bluetooth Connector and Connection Manager applications.
 - After release, both applications will be available from the following sources:
 - On Google Play
 - Zebra Technologies AppGallery
 - Zebra Technologies website: www.zebra.com/bluetoothprintermanagement
- ✓ Install Zebra's Printer Setup app (available on Google Play or AppGallery).
- ✓ On your Android device, ensure Bluetooth is turned on.
- ✓ On your Android device, ensure NFC is enabled if your device supports it.
- ✓ On your Android device, ensure you have an active internet connection via WiFi or cellular data.
- ✓ On your printer, ensure Bluetooth is enabled.



Configure Connection Manager

- Launch Connection Manager.
- If prompted, allow all required permissions.
- Open Settings and change the Printer Status Polling Interval to the minimum 15 seconds.





Configure Bluetooth Connector

- Launch Bluetooth Connector
- Open Settings and tap Server URL. Tap Scan a Server QR Code.
- Choose your demo:
 - Scan a QR code below for either SOTI MobiControl or PPME.

SOTI MobiControl



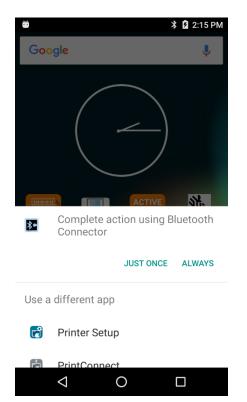
PPME

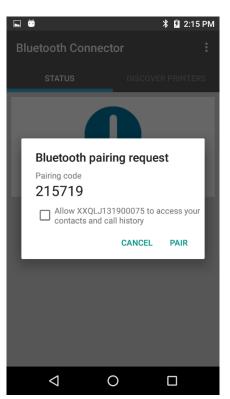




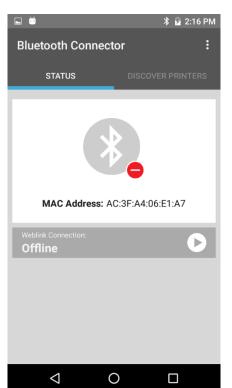
Connect the printer to the Android device

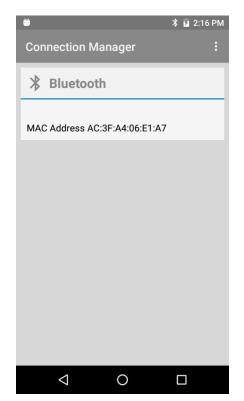
- Use the NFC Bump 'n' Pair method (aka Print Touch) to connect the printer to the Android device. If prompted, select Bluetooth Connector from the 'Complete action using ...' dialog.
- The printer's Bluetooth MAC address should be visible in both applications after successful pairing.













Connect the printer to the Android device

- Use one of the methods below when the NFC Bump 'n' Pair method is not available:
 - Discover printer
 - In Bluetooth Connector, tap the DISCOVER PRINTERS tab and select your printer from the list.
 - Manually add a printer
 - Open Bluetooth Connector settings and tap Selected Printer.
 - Enter the printer Bluetooth MAC address in the format AA:BB:CC:11:22:33



Connect to the MDM application

• If the connection is not made automatically, tap the icon on the **Bluetooth Connector** status tab to initiate the connection to the MDM.









Choose your demo

- <u>Demo with Printer Profile Manager Enterprise</u>
- Demo with SOTI MobiControl

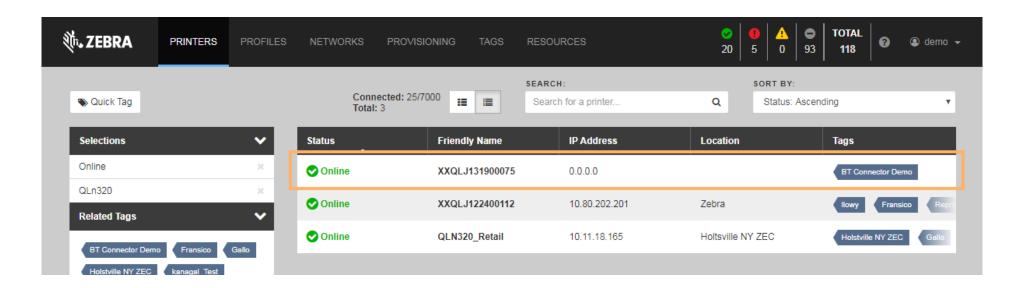


DEMO WITH PRINTER PROFILE MANAGER ENTERPRISE



Demo with Printer Profile Manager Enterprise

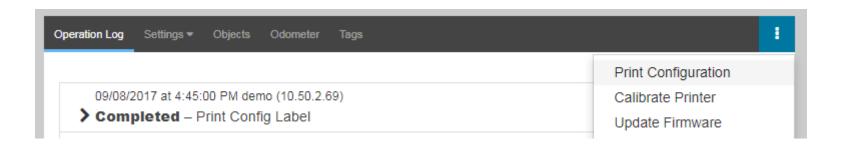
- Log in to the Printer Profile Manager Enterprise console:
 - https://demo-zebra.link-os.com/linkos/
 - Username: demoPassword: Password1&
- Your printer should be visible and online in the console.





Quick test

- To confirm the connection, use the 'Print Configuration' option on the printer landing page.
 - The printer configuration page should print.

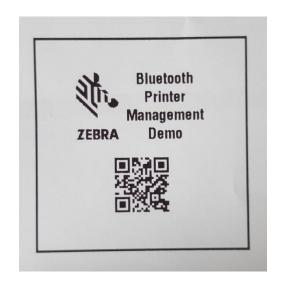




Send a resource

- Select the RESOURCES tab.
- Click the resource named bt-management-demo-label.zpl.
- Send the resource to your printer.
- The demo label will print.







Store & remove an object

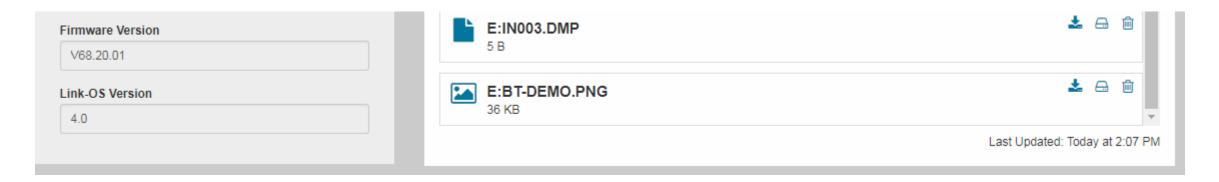
- Select the RESOURCES tab.
- Click the resource named **bt-management-demo-object.zpl**.
- Store the resource on your printer.





Store & remove an object

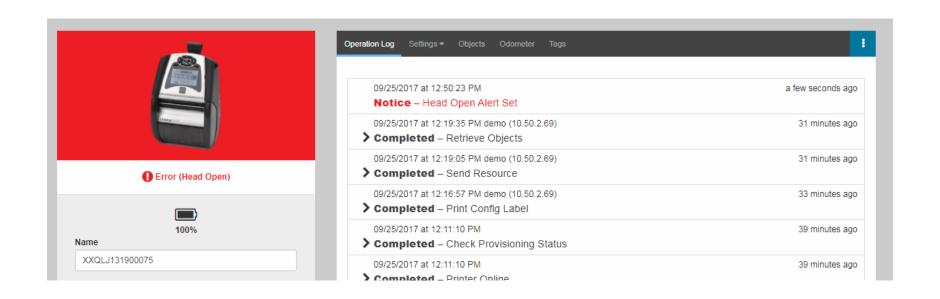
- Go to the Objects tab on the printer's landing page.
- Click Refresh Objects.
- Verify the BT-DEMO.PNG file is listed.
- From the objects listing, remove the object from the printer.
 - The object listing will be refreshed automatically.
 - Verify the BT-DEMO.PNG has been removed from the printer.





Show an alert

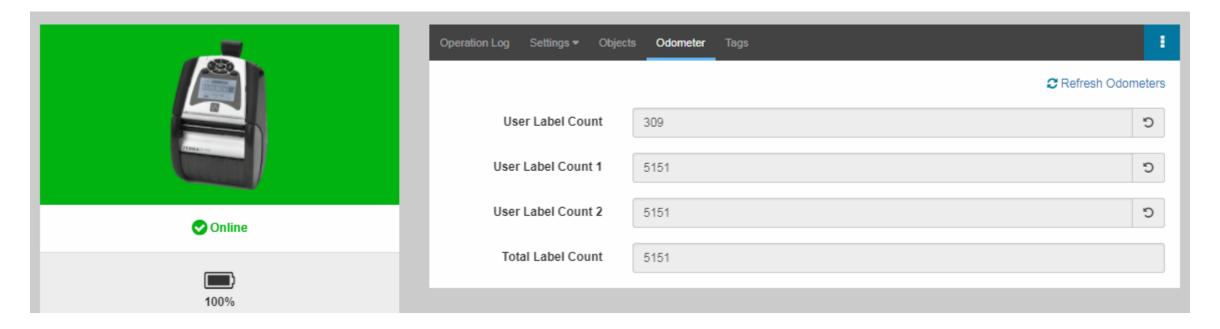
- Go to the printer landing page.
- Open the printhead and/or create an out of media condition.
- The status will change in the console within the 15 second polling interval.





View printer information – Part 1

- Click the Odometer tab on the printer landing page.
- Observe and note the Odometer values.
- You'll revisit this later.

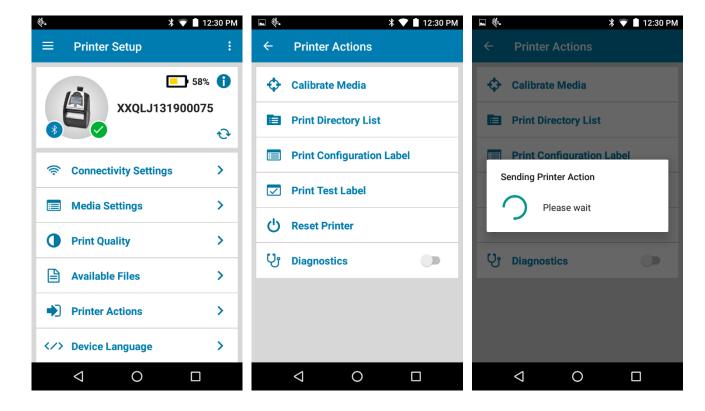




Print from an application

- Use Printer Setup to simulate a printing app and to increase the printer's Odometer values which can then be viewed in the console.
- Launch Printer Setup and use the NFC Bump 'n' Pair method to connect to the printer. If prompted, select Printer Setup from the 'Complete action using ...' dialog.
- Tap Printer Actions and then Print Test Label. A label should print.
 - Repeat if you wish to print multiple labels.

De-select the printer when finished.

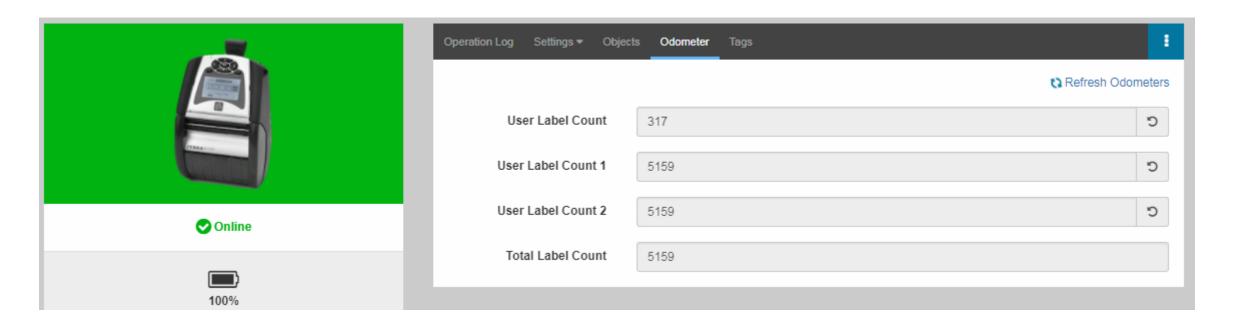


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View printer information – Part 2

- Click Refresh Odometers.
- Observe the label count values have increased.

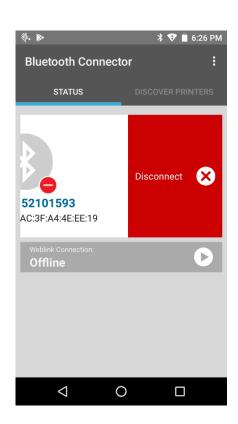




You're almost done!

- The feature demonstration is complete.
- Disconnect the printer from PPME by tapping the icon on the Bluetooth Connector STATUS tab.

- Disconnect the printer from the Android device by swiping the Bluetooth icon and tapping the icon.
- Continue to the next step 'housekeeping'.

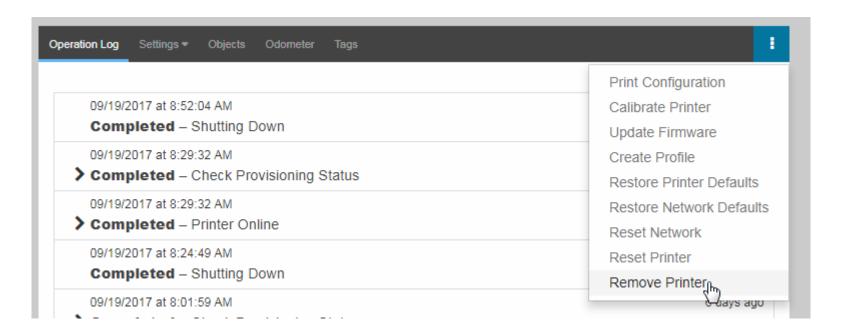




Some housekeeping ...

- We ask that you now remove your printer from PPME.
 - Use the remove printer option from the printer's landing page.

Thank You!





YOU HAVE COMPLETED THE DEMO WITH PRINTER PROFILE MANAGER ENTERPRISE

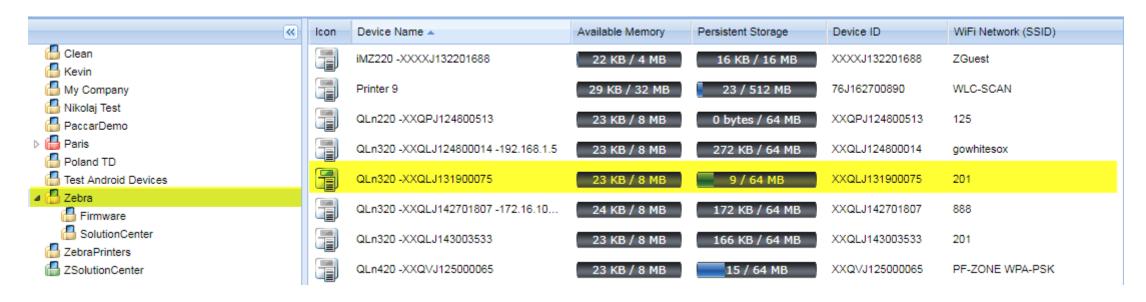


DEMO WITH SOTI MOBICONTROL



Demo with SOTI MobiControl

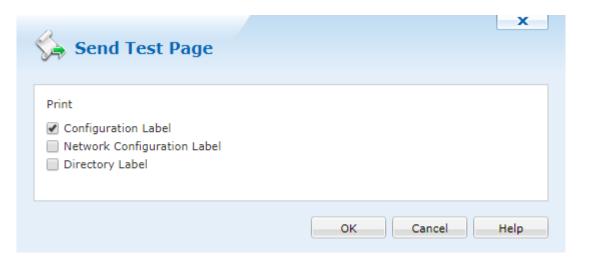
- Log in to the MobiControl console:
 - https://zebratest2.mobicontrolcloud.com/MobiControl/WebConsole/Home
 - Username: zebra Password: SOTIZEBRA
- Your printer should be visible and online under the Zebra section in the console.





Quick test

- To confirm the connection, use the 'Send Test Page' option in MobiControl
 - The printer configuration page should print within15 seconds.



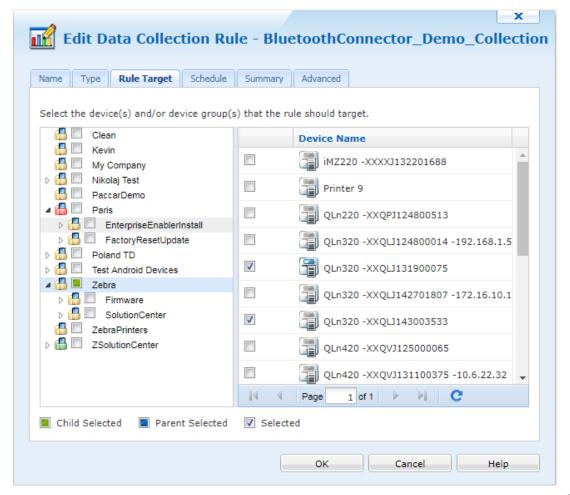


Data collection – Part 1

- In MobiControl, assign your printer to the rule named BluetoothConnector_Demo_Collection
- MobiControl will start collecting the following data from the printer every 2 minutes.



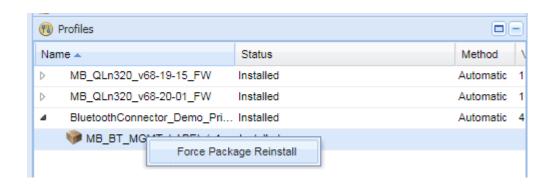
You'll revisit this later.

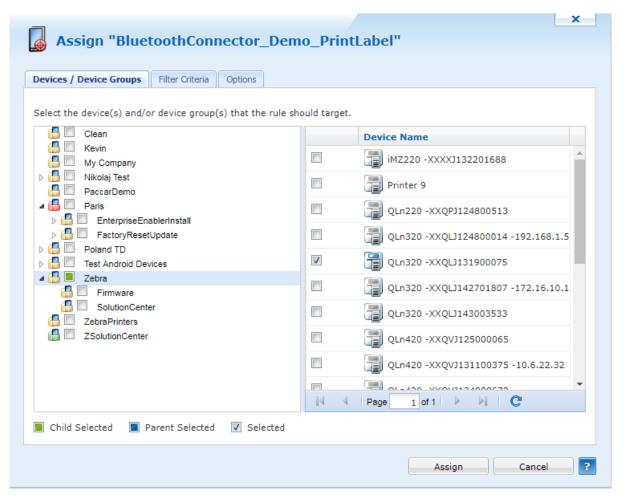




Send a resource

- In MobiControl, assign your printer to the profile named BluetoothConnector_Demo_PrintLabel
- The profile will be sent to your printer and a label should print.
- You can resend it using the 'Force Package Reinstall' option.

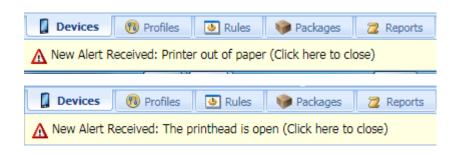


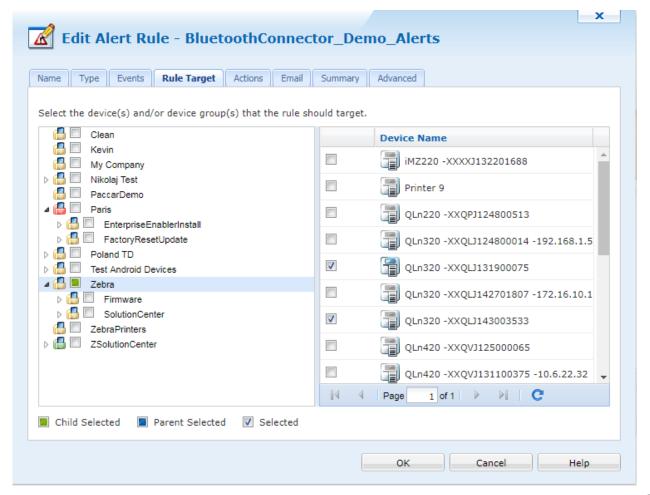




Show an alert

- In MobiControl, assign your printer to the rule named BluetoothConnector_Demo_Alerts
- Open the printhead and/or create an out of media condition.
- The alert will appear at the bottom of the console within the 15 second polling interval.

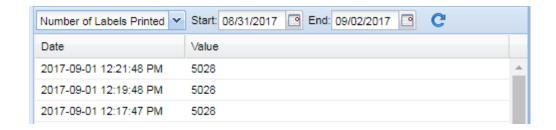






Data collection – Part 2

 In MobiControl, select your printer and view the 'number of labels printed' in the data collected area. Some data should have been collected.

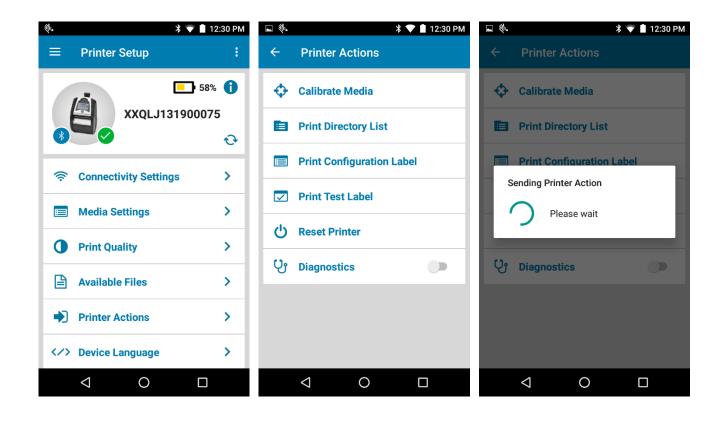


You'll revisit this again later.



Print from an application

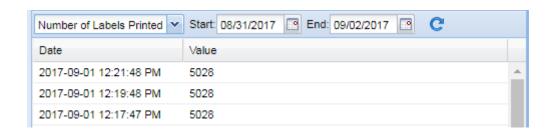
- Use Printer Setup to simulate a printing app and also to see the 'number of labels printed' value change in the collected data.
- Launch Printer Setup and use the NFC Bump 'n' Pair method to connect to the printer. If prompted, select Printer Setup from the 'Complete action using ...' dialog.
- Tap Printer Actions and then Print Test Label. A label should print.
 - Repeat if you wish to print multiple labels.
- De-select the printer when finished.





Data collection – Part 3

- Review the collected data again. The 'number of labels printed' value should have increased.
 - Review the time and ensure 2+ minutes have past since printing the label. Click refresh if necessary.
 - Values of all collected data may not change due to the short time taken to perform the demo.
 - Not all collected data items are supported on all printers.



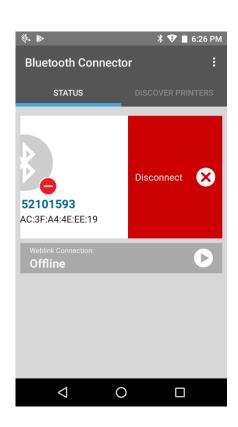
Number of Labels Printed 💌	Start: 08/31/2017	
Date	Value	
2017-09-01 12:33:55 PM	5029	_
2017-09-01 12:31:54 PM	5029	
2017-09-01 12:29:53 PM	5028	
2017-09-01 12:27:51 PM	5028	
2017-09-01 12:25:50 PM	5028	



You're almost done!

- The feature demonstration is complete.
- Disconnect the printer from MobiContol by tapping the icon on the Bluetooth Connector STATUS tab.

- Disconnect the printer from the Android device by swiping the Bluetooth icon and tapping the icon.
- Continue to the next step 'housekeeping'.





Some housekeeping ...

- This cloud instance of SOTI MobiControl has a limited number of device licenses.
- The maximum number of licenses will eventually be reached if devices are not removed.
 - This prevents other users connecting their devices to perform demos.



- We ask that you now remove your printer to ensure other users can continue to use this demo.
 - Please remove your printer assignments from the rules and profiles.
 - Please remove your printer from the list of devices.

Thank You!



YOU HAVE COMPLETED THE DEMO WITH SOTI MOBICONTROL