# Link-OS Cloud Printing Demo

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## Overview

This demo allows you to pair your QLn320 printer with an RS507 Bluetooth® ring scanner and use the printer's wireless radio to communicate directly to a cloud-based application that's developed with the Link-OS SDK. As barcodes are scanned, the data is sent by the printer to the cloud application for immediate processing, showing the power of the Link-OS cloud connect feature. The application is deployed on the Microsoft® Azure™ platform.

The demo also shows customized menus can be created and used on the front panel of the printer.

| Equipment: | Software & configuration file links: |
|---|---|
| • QLn320 dual radio version.<br>• 2" x 1" labels.<br>• 3" x continuous media.<br>• RS507 Ring Scanner with firmware version **PAAACC08-005-R00D0**. | • RS507PCTOOL000103.exe<br>• Zebra Setup Utilities<br>• Printer Configuration File<br>• Demo Removal File<br>• RS507 Firmware PAAACC08-005-R00D0 |

## RS507 Scanner Configuration

| | | |
|---|---|---|
| 1 | Scan Defaults | <br>*Set Defaults |
| 2 | Scan SPP barcode | SPP bar code<br> |
| 3 | Scan Pairing barcode for your printer. | Generate this barcode using the **RS507PCTOOL000103.exe** application. |

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| | | |
|---|---|---|
| 4 | Scan the reconnect on Power up barcode | On power up |
| 5 | Scan <DATA><SUFFIX1> | <DATA> <SUFFIX 1> (01h) |
| 6 | Power cycle the Ring scanner by removing/replacing the battery. | |

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**Demo Installation:**

1. Configure the printer to connect to a network that has internet connectivity. It may be necessary to configure authentication in the printer. If so, refer to the **weblink.ip.conn[1|2].authentication.add** SGD command. If you assign the printer a static IP address you will need to manually configure the DNS server information in the printer or the printer will not resolve the configured weblink url. This article describes how to configure the DNS server information in the printer.

2. Download the Printer Configuration File (**Cloud_Printing_Demo_Config.txt**) from the link on page 1. Send the file to the printer. The printer should reboot.

3. If the printer is successfully connected to the local network, the main menu will be displayed.
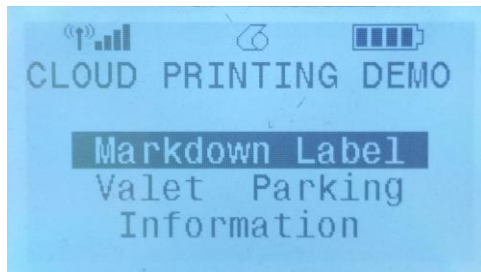


4. If the printer successfully connects to the internet, it should appear listed on this webpage.

5. See the following pages for instructions on how to use the demo.


**Demo Removal:**

1. Download the Demo Removal File (**Cloud_Printing_Demo_Removal.txt**) from the link on page 1.

2. Send the file to the printer. The printer should reboot and power up with the default menu.

**To print a markdown label:**

**Using the front panel of the printer:**

The sample item numbers can be used if a Bluetooth scanner is not available.

1. Select the 'Price Markdown' option from the main menu and press OK.
2. Select an item number and press OK.
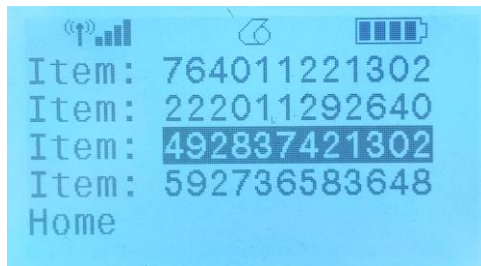


3. A label will print and the selected item number will be displayed on the printer's front panel. After 3 seconds the main menu will be displayed.

**Using a Bluetooth scanner:**

1. Scan any UPC (12 digit) or EAN (13 digit) barcode on any product.
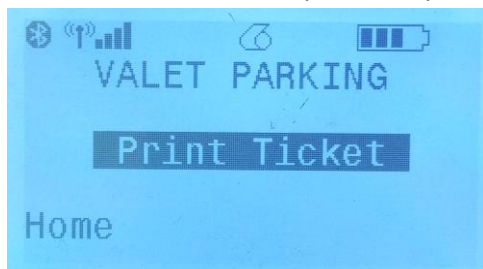   **Note:** you do not have to select a menu option.
2. A label will be printed.

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**Valet Parking demo:**

**Using the front panel of the printer:**

1. Select the 'Valet Parking' option from the main menu and press OK.

2. Select the 'Print Ticket' option and press OK.



3. A ticket should print that includes a random 3 digit number and a QR code on it. The customer would typically receive this type of receipt after dropping off the vehicle.

4. Assume the customer now wants to pick up the car. The customer could call by phone and request the vehicle pickup (call in method) or request the pickup themselves by visiting a webpage on their smart device. (self-service method)

   a. **Call in method**: go to this page http://weblink.cloudapp.net/ZebraDemo/
      i. This page simulates an operator console where the customer may call in by phone. Using the ticket number, the operator can send a request to prepare the car for pickup.



## Link-OS Cloud Printing Demo

**Press F5 to refresh the table.**

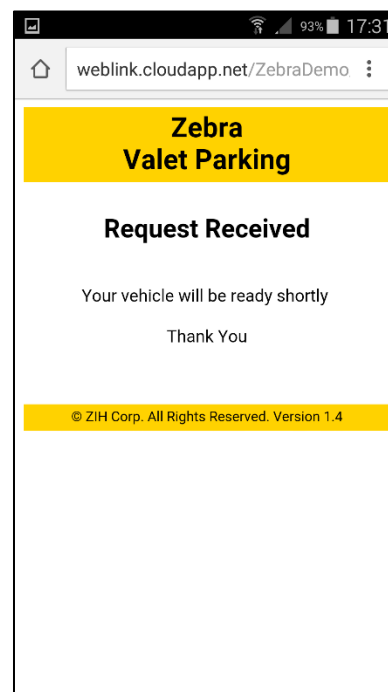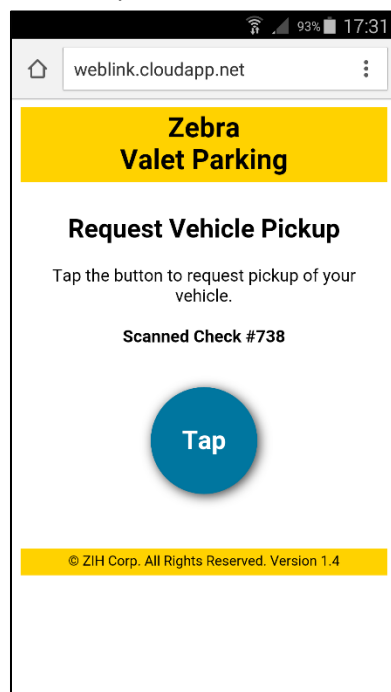| 5 printer(s) online | Location | Printer ID | Valet Pickup Request | |
|---|---|---|---|---|
| ZTC ZT410-203dpi ZPL | | 18J150200475 | Enter Claim Check Number: | Send Request |
| ZTC QLn320-203dpi ZPL | Hotel #101 | XXQLJ131900075 | Enter Claim Check Number: | Send Request |
| ZTC ZT410-300dpi ZPL | | 18J153601147 | Enter Claim Check Number: | Send Request |
| ZTC QLn320-203dpi CPCL | | BA_QLN320_2 | Enter Claim Check Number: | Send Request |
| ZTC ZD500R-203dpi ZPL | Hotel #101 | ZD500RRRRRRR | Enter Claim Check Number: | Send Request |

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ii.   Type in the 3 digit number from the printed ticket on the webpage in the 'Enter Claim Check Number' text box next to your printer. Click the 'Send Request' button.

iii.  Go to step c below.

b.  **Self-service method**: use an app on your smart device to scan the QR code on the printed ticket. See Appendix A on how a TC55 and the DataWedge app can be used with this demo.

Recommended QR coder reader apps for smart devices:
   QR Droid for Android
   QR Reader for iOS

i.    Open the encoded url. This will take you to a webpage as shown in the image below.

ii.   Tap the button. You will be taken to a confirmation webpage.

iii.  Go to step c below.

| weblink.cloudapp.net | weblink.cloudapp.net/ZebraDemo |
|---|---|
| **Zebra Valet Parking** | **Zebra Valet Parking** |
| **Request Vehicle Pickup** | **Request Received** |
| Tap the button to request pickup of your vehicle. | Your vehicle will be ready shortly |
| **Scanned Check #738** | Thank You |
| **Tap** | © ZIH Corp. All Rights Reserved. Version 1.4 |
| © ZIH Corp. All Rights Reserved. Version 1.4 | |

c.  The printer should make an audible tone and display a pickup request message on the display containing your 3 digit number. Select Accept or Reject on the printer display and press OK.

d.  Pressing Reject will return to the 'Valet Parking' menu.

e. Pressing Accept will cause a further transaction with the server application and a message will be displayed on the printer's front panel. After 3 seconds the 'Valet Parking' menu will be displayed.
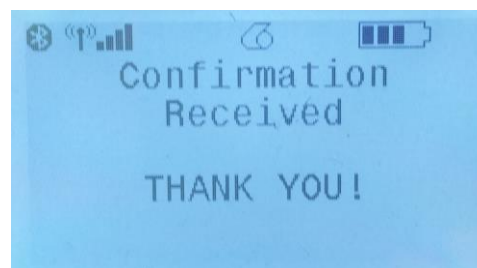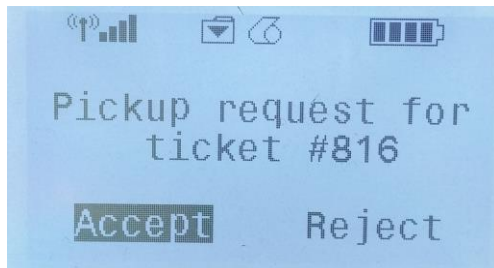


f. To return to the main menu, select the 'Home' option from the 'Valet Parking' menu and press OK.

**Using a Bluetooth scanner:**

1. Scan any 4 character barcode in the format Vnnn, where nnn is a 3 digit number.

2. A ticket should print with your scanned 3 digit number on it. The customer would typically receive this type of receipt after dropping off the vehicle.

3. Assume the customer now wants to pick up the car. The customer could call by phone and request the vehicle pickup (call in method) or request the pickup themselves by visiting a webpage on their smart device. (self-service method)

   a. **Call in method**: go to this page http://weblink.cloudapp.net/ZebraDemo/
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**Press F5 to refresh the table.**

| 5 printer(s) online | Location | Printer ID | Valet Pickup Request | |
|---|---|---|---|---|
| ZTC ZT410-203dpi ZPL | | 18J150200475 | Enter Claim Check Number: [　　] | Send Request |
| ZTC QLn320-203dpi ZPL | Hotel #101 | XXQLJ131900075 | Enter Claim Check Number: [815] | Send Request |
| ZTC ZT410-300dpi ZPL | | 18J153601147 | Enter Claim Check Number: [　　] | Send Request |
| ZTC QLn320-203dpi CPCL | | BA_QLN320_2 | Enter Claim Check Number: [　　] | Send Request |
| ZTC ZD500R-203dpi ZPL | Hotel #101 | ZD500RRRRRRR | Enter Claim Check Number: [　　] | Send Request |
| | | | © ZIH Corp. All Rights Reserved. Version 1.6 | |

ii. Type in the 3 digit number from the printed ticket on the webpage in the 'Enter Claim Check Number' text box next to your printer. Click the 'Send Request' button.

iii. Go to step c below.

b. **Self-service method**: use an app on your smart device to scan the QR code on the printed ticket. See Appendix A on how a TC55 and the DataWedge app can be used with this demo.

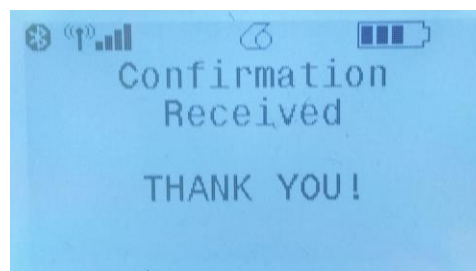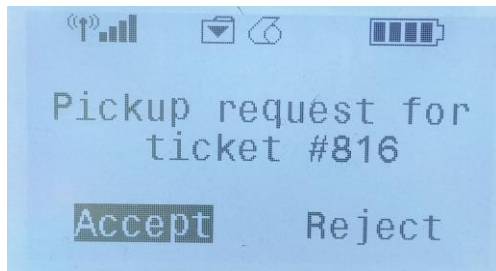Recommended QR coder reader apps for smart devices:
QR Droid for Android
QR Reader for iOS

iv. Open the encoded url. This will take you to a webpage as shown in the image below.
v. Tap the button. You will be taken to a confirmation webpage.
vi. Go to step c below.
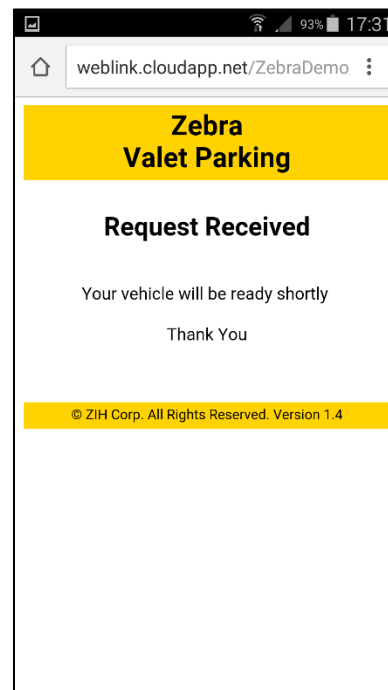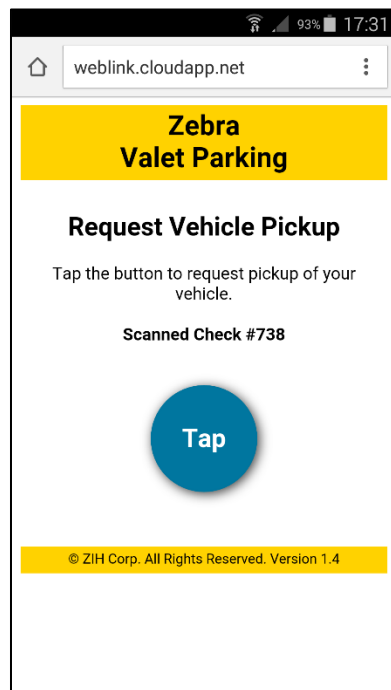


c. The printer should make an audible tone and display a pickup request message on the display containing your 3 digit number. Select Accept or Reject on the printer display and press OK.

d. Pressing Reject will return to the 'Valet Parking' menu.

e. Pressing Accept will cause a further transaction with the server application and a message will be displayed on the printer's front panel. After 3 seconds the 'Valet Parking' menu will be displayed.



f. To return to the main menu, select the 'Home' option from the 'Valet Parking' menu and press OK.

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| Sample Barcodes for Markdown Label | |
|---|---|
|  | <br>5 702014 730380 |
|  | <br>0 18208 07278 1 |
|  | <br>8 85631 37189 3 |

**Sample Barcodes for Valet Parking Ticket**
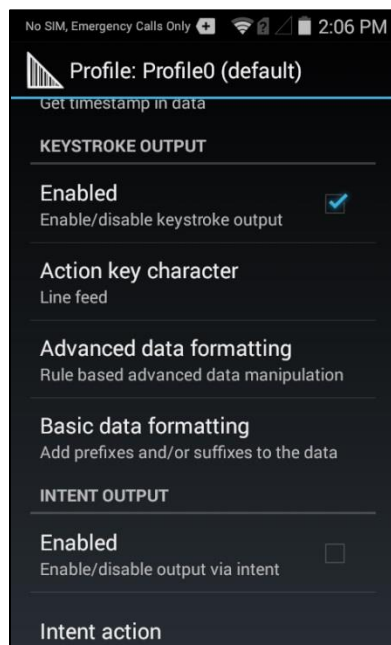
V384

V814

V450

**APPENDIX A**

**How to configure a TC55 to scan the Valet Parking Demo QR code.**
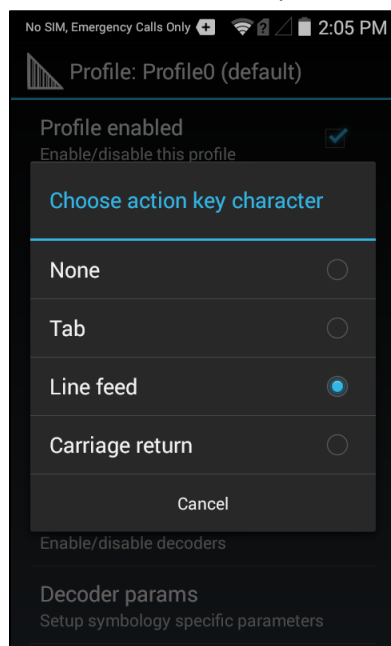
1. Open the DataWedge app.
2. Tap 'Profile0 (default)'
3. Ensure the 'Profile enabled' field is checked.
4. Tap the 'Scanner selection' field.
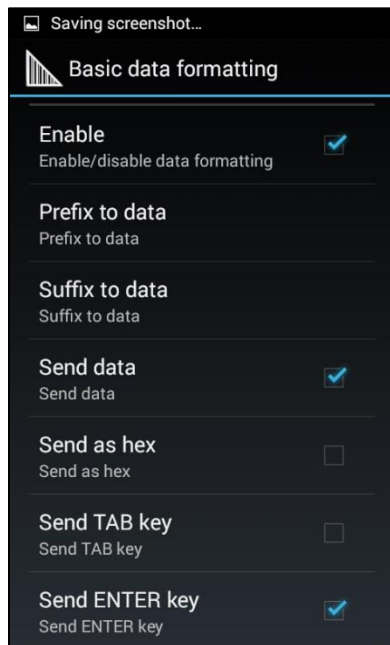5. Select the 'Camera Scanner' option.
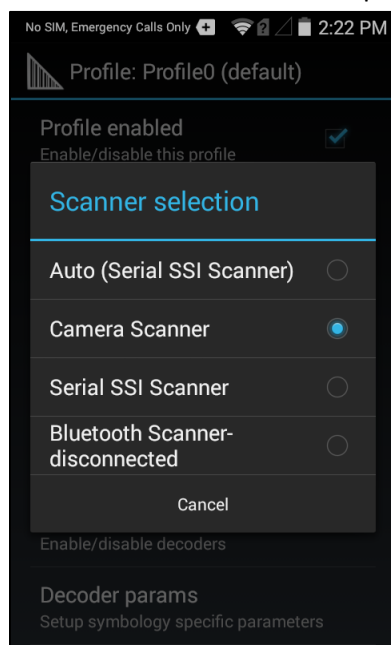


6. Scroll down to the KEYSTROKE OUTPUT section.

7. Tap the 'Action key character' field.
8. Select the 'Line feed' option.



9. Tap the 'Basic data formatting' field.
10. Enable the 'Send ENTER key' option by checking the box.

11. Repeatedly tap the back button until you exit the DataWedge app.

12. Open the web browser.
13. Tap the address bar to place the cursor in it.



14. Press the scan button and scan the QR code (the camera scanner should open).

15. Assuming the TC55 has internet connectivity, you should be directed to a web page automatically.