Printing Labels – Enterprise Browser – JavaScript

Enterprise Browser is a powerful, next generation industrial browser that enables you to build feature-rich web applications that integrate seamlessly with the features in Zebra mobile computers and peripherals.

Enterprise Browser's feature-rich mobile application development tool allows you to seamlessly integrate the browser into the native peripherals of a device, while enabling barcode scanning, signature capture, and much more.

Note: Enterprise Browser replaces the Zebra Pocket Browser and RhoElements Shared Runtime.

This sample application demonstrates best practices for printing on any Zebra ZPL printer. It is written as a walkthrough. Each page of the app provides the next steps to a full printing application. Steps include discovering, connecting to, checking the printer's status, and printing a stored format over Bluetooth or TCP/IP connections.

Note: This application is provided AS-IS, for example purposes only.

Resources

The following are useful resources:

- Enterprise Browser Documentation - PrinterZebra API
- Rho Printing Guide

Setup

Follow these steps to set up and use the sample application.

1. Install the browser.
2. Copy the HTML folder into the Enterprise Browser folder.
3. Setup the StartPage in Config.xml.

```
<General>
   <Name value="Menu"/>
   <StartPage value="file://%INSTALLDIR%/HTML/index.html" name="Menu"/>
   <UseRegularExpressions value="0"/>
</General>
```

4. Start the app by running the Enterprise Browser.

Using the Sample Application

This section walks you through the using this sample application.

1. Pull in the needed modules for each page – Need both priter.js and printerzebra.js.

```
<script type="text/javascript" charset="utf-8"
src="./EnterpriseBrowser/ebapi-modules.js"></script>
        <script type="text/javascript" charset="utf-8"
src="./EnterpriseBrowser/eb.printer.js"></script>
<script type="text/javascript" charset="utf-8"
src="./EnterpriseBrowser/eb.printerzebra.js"></script>
```

2. Find the printer by using:

   `EB.PrinterZebra.searchPrinters()`

   Note: Finds both Wi-Fi and Bluetooth printers.

3. Search for a specific BT MAC address.

   - Bluetooth finds all Bluetooth devices, not just printers
   - Wi-Fi – Finds multiple printers

   This command returns the PrinterID. This ID is not associated with your specific printer and is only useful in this session/page.

4. Open communication with the printer by using:

   `EB.Printer.getPrinterByID()`

   This command creates a ZebraPrinter object.

5. Connect to the printer by using:

   `EB.PrinterZebra.connect()`

   Note: Best practice is to show the user friendly name (priner.deviceName) and address (printer.deviceAddress).

6. Add a disconnect function to window.onunload.

7. Check the printer's status by using:

   `EB.PrinterZebra.requestState()`

   Note: Always check the printer status before printing.

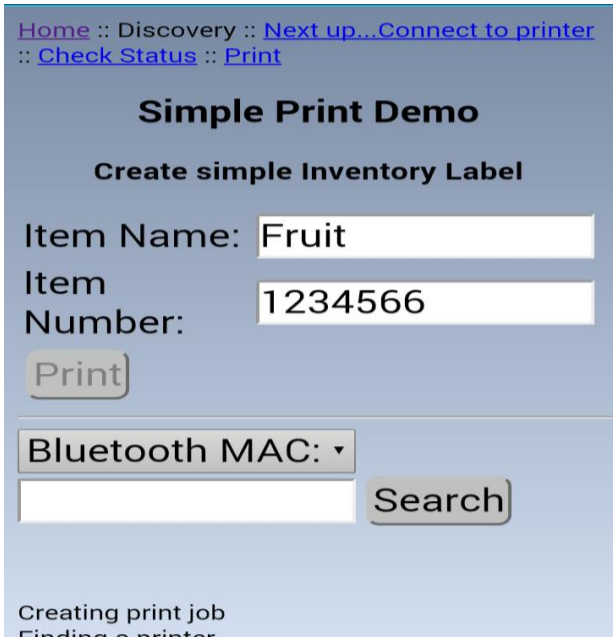
   Note: A best practice is to show the user a message when there is an issue and be descriptive. If the printer is in a bad state, check again until it is fixed.

8. Print. You can use either of the following methods:

   `EB.PrinterZebra.printRawString()` or `EB.PrinterZebra.printFile()`

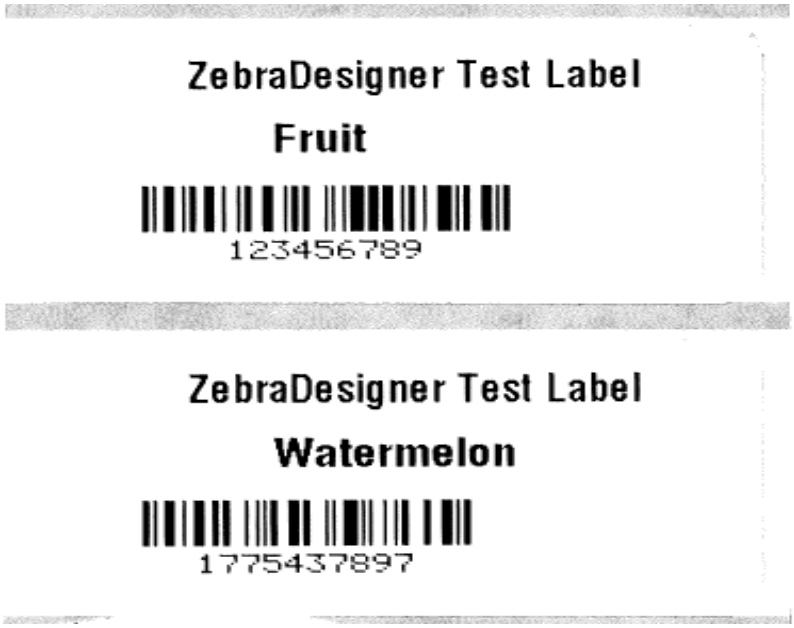
   Note: A best practice to make sure the printer works out of the box. Don't assume printer is set up properly. Also, send configuration information like the print language and store formats and images.

   The following images demonstrate the displays.



Creating print job
Finding a printer
Please input a printer address
Searching...
Searching Bluetooth...Give me a few seconds.
Found a printer:ZEBRA_PRINTER_1
Done Searching
Paired with printer ZEBRA_PRINTER_1
Connecting to ZEBRA_PRINTER_1
Connect Status: PRINTER_STATUS_SUCCESS
Friendly Name: APond
Address: AC:3F:A4:0C:8E:9D
Connected? true
Printer is ready to print.
Print job sent to printer.

Creating print job
Finding a printer
Printer Already Found: ZEBRA_PRINTER_1
Printer already connected: APond
Printer is ready to print.
Print job sent to printer.


ZebraDesigner Test Label
Fruit
123456789
ZebraDesigner Test Label
Watermelon
1775437897

Document Control

Version	Date	Description
1	February, 2016	Initial Release

All links and information correct at time of writing

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