

WebScanner

Implementation guide

Version 1.3.1

2025-03-21

Contents

About the scanner	3
Installation.....	4
Https.....	4
Usage.....	4
Configuration.....	5
Processing data	5

About the scanner

The cWebScanner is a standalone component that provides a way of scanning a vast number of barcode formats. It is based on Google's ZXing (ZebraCrossing) library and wrapped for easy use in DataFlex WebApps.

Supported formats are:

1-Dimensional

- code_128_reader (default)
- ean_reader
- ean_8_reader
- code_39_reader
- code_39_vin_reader
- codabar_reader
- upc_reader
- upc_e_reader
- i2of5_reader
- 2of5_reader
- code_93_reader

2-Dimensional

- QR

Installation

Copy the WebScanner folder from cWebScanner/AppHtml to your application's AppHtml folder

Add the required references to these files in your index.html:

```
<!-- WEBCANNER COMPONENTS -->
<script src="WebScanner/quagga.min.js"></script>
<script src="WebScanner/core-estimator/core-estimator.min.js"></script>
<script src="WebScanner/qr-scanner/paulmillr-qr.js"></script>
<script src="WebScanner/WebScanner.js"></script>
<link rel="stylesheet" href="WebScanner/WebScanner.css">
```

Add the cWebScanner as a library to your DataFlex workspace, select the correct version. For this, in the studio go to "Tools" → "Maintain Libraries" and add the workspace as a library.

You can now use the cWebScanner component in your application.

Https

Note that outside of testing on your **localhost** the scanner will only work in **https** environments as it requires access to device hardware.

Usage

The scanner detects and uses your device's integrated cameras and allows for switching between cameras if your device has multiple (e.g. front and rear facing camera on a smartphone). To begin using the cWebScanner, simply create an object instance and set the format you want to scan for.

```
Object oScanner is a cWebScanner
    Set piColumnSpan to 0
    Set peCodeFormat to CODE_FORMAT_QR
//      Set psCodeFormatMulti to "ean_reader, ean_8_reader"
//      Set psCodeFormatMulti to "codabar_reader, code_128_reader, code_39_reader"

    Procedure OnProcessCodeResult tCodeResult CodeResult
        Forward Send OnProcessCodeResult CodeResult
        WebSet psValue of owfResult to CodeResult.sCode
    End_Procedure

End_Object
```

The scanner above reads a QR code and outputs the result in a separate webform.

Configuration

All properties are extensively documented inside the `cWebScanner` class, but the main properties to use are:

peCodeFormat (integer) – defines to type of code to scan for, uses a set of constants for ease of access (`CODE_FORMAT_128`, `CODE_FORMAT_EAN`, etc.)

psCodeFormatMulti (String) – Allows for defining a set of multiple codes to scan for using a comma separated string. The format name must be exactly correct or this instruction will fail. A list of accepted code formats can be found in the comments inside the class.

piScannerWidth and piScannerHeight (Integer) – Sets the dimensions for the scanner's video feed in the WebApp.

Processing data

After each successful scan, **OnProcessCodeResult** is called. This contains a **tCodeResult** containing the data inside the code, as well as information about the scan and the code itself. The data can then be used for further processing inside your application.