

QR code

🌐 Language: [Deutsch](#) · [English](#)

🔧 QR code

Generate QR codes in reports – ZXing library, QRCode class, classpath and free customization of the image expression.

HOW-TO

APPLICATION DEVELOPER

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APPLIES TO NUCLOS 4.2026.X

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QR code in JasperReports

A **QR code** is a 2D matrix with error correction (up to ~30% loss). In Nuclos forms it is generated via the **ZXing** library and a small helper class.

1. ZXing library

Google provides [ZXing](#). Copy `core.jar` (folder *Core*) and `javase.jar` (folder *Javase*) into the project folder.

2. QRCode class

```
package com.qrcodeself;
import com.google.zxing.BarcodeFormat;
import com.google.zxing.WriterException;
import com.google.zxing.client.j2se.MatrixToImageWriter;
import com.google.zxing.common.BitMatrix;
import com.google.zxing.qrcode.QRCodeWriter;
/**
 *
 * @author
 */
public class QRCodeClass{
    public static java.awt.Image setQRCode(String code) {
        QRCodeWriter writer = new QRCodeWriter();
        BitMatrix matrix = null;
        try {
            matrix = writer.encode(code, BarcodeFormat.QR_CODE, 100, 100);
        } catch (WriterException e){
        }
        return MatrixToImageWriter.toBufferedImage(matrix);
    }
}
```

3. Register in Nuclos

Provide the class as a [scriptlet/extension](#) and register it in the [Jasper classpath parameter](#).

Customizing the QR code

Every base form contains a default QR code from the BO's abbreviation and number. The call is in the **Image Expression** property and can be composed freely (string concatenation with +):

```
"LS: " + ${strnummer}
```



Data types

String fields are recognizable by the `str` prefix. Convert other types (`dbl`, `int`, `bln`, `BigDecimal`) first, e.g. `${dblvknetto}.toString()` or formatted new `java.text.DecimalFormat("#,##0.00").format(${dblvknetto})`.



Unbekannter Anhang

Extended QR code values.

Related pages



DataMatrix

GS1 barcode.

[Open](#)



Scriptlets

Scriptlets.

[Open](#)



Jasper extensions in Nuclos

Classpath.

[Open](#)