

DataMatrix

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DataMatrix

GS1 DataMatrix in reports – ZXing, classpath parameter, application identifier and server extension.

HOW-TO

APPLICATION DEVELOPER

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APPLIES TO NUCLOS 4.2026.X

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DataMatrix per GS1

The goal is a machine-readable `java.awt.Image` of a valid DataMatrix via **ZXing**. The bundled `DataMatrixWriter` suffices for simple cases; for a valid **GS1** code small changes to the ZXing source are needed (codeword FNC1 before each variable-length codeword).



Application Identifier

Each data field starts with a 2–3-digit **Application Identifier** (e.g. (01)) indicating which GS1 data follows.

Classpath parameter

To use it via Jasper, create the parameter `nuclos.jasper.reports.compile.classpath.jars.byClasses` with this value:

```
net.sf.jasperreports.engine.JasperReport org.nuclos.server.report.api.JRNuclosDataSource com.google.zxing.  
BarcodeFormat com.google.zxing.WriterException com.google.zxing.client.j2se.MatrixToImageWriter com.google.  
zxing.common.BitMatrix com.datamatrixnuc.DataMatrixClass
```

Data source (application identifier)

The AIs are composed in SQL (example):

```
'(01)' || t2.intgtin13 || '(17)' || to_char(t5.dathaltbarkeitsdatum, 'YYmm00') || '(10)' || t5."strchargencode"  
|| '(240)' || t2.strartikelnummer "strnummer"
```

Embedding the extension

Place the required JARs in `<Nuclos>/extensions/server/`, **run the installer again** (or copy the JARs manually to `webapp/WEB-INF/lib`) and restart the server. Details: [Jasper extensions](#).

Related pages



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Jasper extensions in Nuclos

Extensions.

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