

Generate DataMatrix

Description

The app generates DataMatrix barcodes as SVG (RGB) files using bwip-js. DataMatrix is a 2D matrix symbology commonly used in industrial part marking, pharmaceutical packaging and small-item labelling.

The app creates a child job containing the generated SVG and sends the original job to null. The SVG is emitted with explicit width and height in the requested physical unit so InDesign, Illustrator and print RIPs place the code at its exact specified size. Square and rectangle formats are supported, as are mirroring and rotation.

Compatibility

Switch 2023 Fall and later.

Connections

The app has one incoming connection. Configure two outgoing connections so that success and error traffic are routed separately: set one as the outgoing success connection and the other as the outgoing error connection (traffic-light levels „Success" and „Error").

- On success, the app replaces the incoming job with the generated SVG file and sends it along the outgoing success connection.
- If the configuration or the job's content is invalid, the incoming job is sent unchanged along the outgoing error connection, and no SVG is produced.
- These expected errors (invalid configuration or job content) are always routed to the outgoing error connection. Only if an unexpected internal error occurs does the job fail and get moved to the problem jobs folder.

Properties detailed info

Configure the DataMatrix generation by entering the data to encode, the output filename, the physical output size and unit, the error correction level, the quiet zone, the rotation, optional mirroring and the format type. The background can be set to transparent or white.

Flow elements properties

- **DataMatrix content:** The text or data to encode in the DataMatrix symbol.
- **Output name:** Defines the output filename without extension. Default is [Job.NameProper]
- **ECC level:** Error correction level from 1 to 8. Higher values produce more robust codes at the cost of size. Default is 4.
- **Quiet zone:** Width of the quiet zone in DataMatrix modules. Allowed range is 0 to 10. Default is 4.
- **Rotation:** Rotates the DataMatrix in 90-degree increments. Available options are 0, 90, 180 and 270 degrees. Default is 0.
- **Flip X:** Mirrors the DataMatrix horizontally. Default is No.
- **Flip Y:** Mirrors the DataMatrix vertically. Default is No.
- **Format type:** Selects the symbol shape. Available options are square and rectangle. Default is square.
- **Size:** (square format only) The output width and height of the DataMatrix in the chosen unit. The symbol is rendered as a square, so this value applies to both dimensions. Must be a positive number.
- **Height:** (rectangle format only) The fixed output height of the DataMatrix in the

chosen unit. The width is scaled automatically to preserve the barcode's aspect ratio. Must be a positive number.

- **Unit:** The physical unit for the output size. Available options are mm, cm and in. Default is mm.
- **Background color:** Selects either a transparent background or a solid white background rectangle. Default is transparent.

Outgoing connections properties

- No properties for outgoing connections.