

# The 2D barcode for higher demands

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## digiSeal® 2d barcode

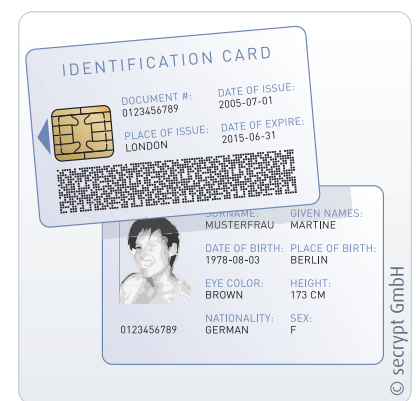
### Description

The **digiSeal® 2d barcode** developed by secript GmbH is a graphic storage medium for use in identification cards and other similar documents.

Thanks to powerful, state-of-the-art generation and recognition methods, the digiSeal® 2d barcode enables large data volumes to be easily processed. And thanks to the built-in error correction and integrated data redundancy, it is also possible to read "unclean" or damaged digiSeal® 2d barcodes.

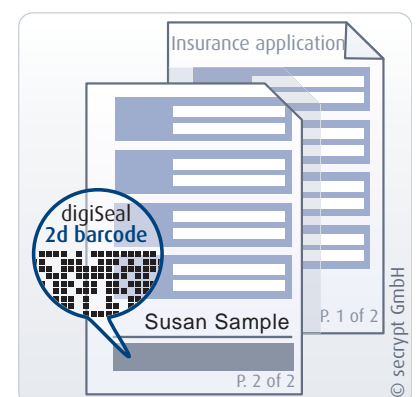
### Advantages

- High data density enable extensive data sets to be stored
- Extremely robust thanks to error correction (Reed-Solomon coding) and data redundancy
- Complete control over freely scalable parameters (surface area, resolution, data redundancy) enables individual customisation of the document layout and the printers used
- Only requires simple and cheap hardware for generation (e.g. inkjet printer) and verification (e.g. flat-bed scanner)
- Simple and cost-effective integration within existing production processes (printing systems)
- Cheap additional security feature
- Data cannot be manipulated once the digiSeal® 2d barcode has been printed



### Application areas

- **Efficient capturing of form data** as part of paper-based business processes without error-prone OCR (Optical Character Recognition), e.g. insurance applications
- **Storing machine-readable (biometric) information** as additional security feature on ID documents, e.g. personal identification documents, company ID, driving licences, medical insurance cards, patient cards, student ID
- **Replacing security risk-prone magnetic strips** with a cheap 2D barcode, e.g. on credit cards



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A Product from

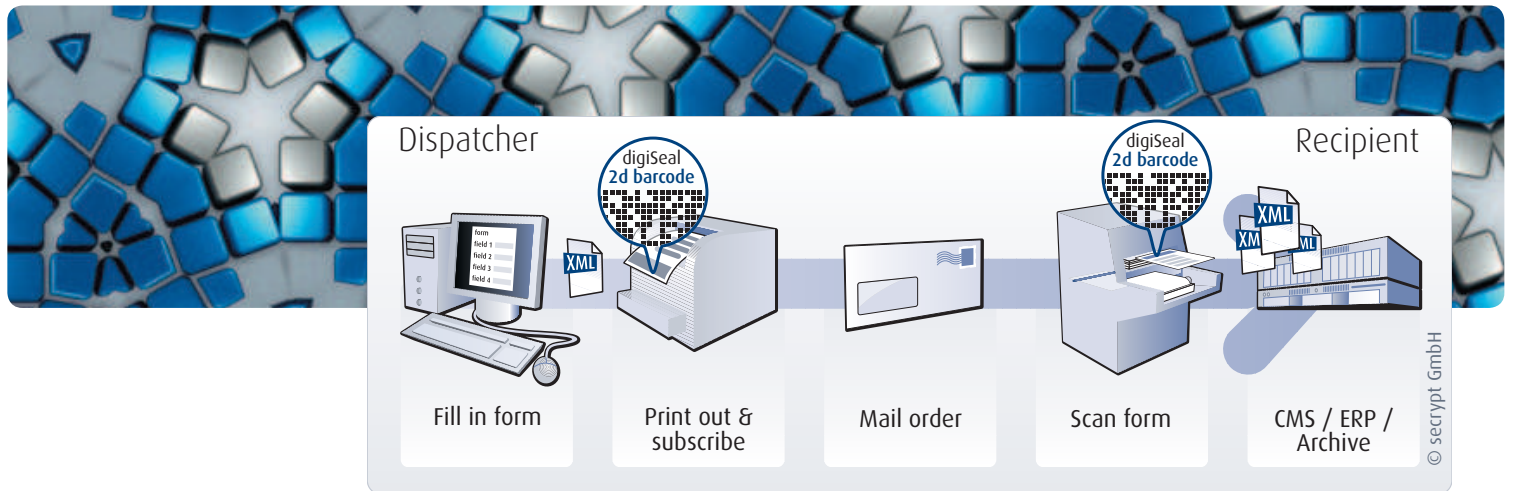
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Aus sicherer Quelle. **secript**

# The diverse, cost-effective, and high-performance data storage medium



## Software Development Kit (SDK)

The digiSeal® 2d barcode SDK provides all necessary functionalities for generating and recognising digiSeal® 2d barcodes for Windows and Linux.

The **surface area, data density and data redundancy parameters** can be individually set for different printer and scanner qualities.

A **padding function** enables digiSeal® 2d barcodes to be generated which always remain the same size, even with differently sized input data sets.

The **ability to restrict the capture area** optimises the processing speed when evaluating digiSeal® 2d barcodes on scanned documents.

An **example application** illustrates how to use the SDK functions when using the Windows GUI.

The integrated **calculation tool** enables the parameters to be individually calculated for the respective application areas.

## Example configurations

Type of printing:	Inkjet	Laser	Laser
Print resolution:	300 dpi	600	600

Scan resolution:	300 dpi	600	600
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User data density:	275 Byte/cm <sup>2</sup>	523	1.177
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Data redundancy:	25%
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## Technology

### Operating systems:

Program libraries with defined C-interface for the operating systems:

Microsoft Windows 98 SE, ME, NT, 2000, XP, Linux

### Data redundancy:

The redundancies can be scaled as required between 0% and 75%. The error correction is based on Reed-Solomon coding.

### Storage capacity:

Minimum per digiSeal 2d barcode: 1 bit  
Maximum per digiSeal 2d barcode: 95 Kbytes



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