The epcqrcode package*

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1 Introduction

This package is a wrapper for the **qrcode** package. It offers an easy way to generate valid EPC QR codes by providing syntax and validity checks, e.g. verifying the correctness of the IBAN.

2 Usage

\epcqr The \epcqr command uses the LaTeX-builtin key-value system to parse the user input. There are 3 mandatory keys to produce a valid EPC QR code: name, iban and amount. The following code produces a minimal example.

```
\epcqr{
   name=Wikimedia Foerdergesellschaft,
   iban=DE33100205000001194700,
   amount=123.45,
}
```



Note, that the maximum payload is limited to 334 bytes. More specific information can be found in the guidelines¹. As of now the user is responsible to stay within this limit, if they are using characters which are not part of following character set: (As specified under section 1.4 in the Customer-to-PSP Implementation Guidelines²)

^{*}This document corresponds to epcqrcode v1.0, dated 2024-02-07.

 $^{^{1}} https://www.europeanpaymentscouncil.eu/document-library/guidance-documents/quick-response-code-guidelines-enable-data-capture-initiation$

 $^{^2} https://www.europeanpaymentscouncil.eu/document-library/implementation-guidelines/sepa-credit-transfer-customer-psp-implementation$

```
0 1 2 3 4 5 6 7 8 9
/-? : ().,'+
Space
```

Additionally to the mandatory arguments, the user can provide more information:

bic (Optional) The BIC code of the Beneficiary Payment Service Provider.

name (Mandatory) The name of the Beneficiary. Maximum length is 70 characters.

iban (Mandatory) The IBAN of the account of the Beneficiary

amount (Mandatory) Amount of the SEPA Credit Transfer in euro. Amount must be larger than or equal to 0.01, and cannot be larger than 999999999.99.

reason (Optional) Purpose of the SEPA Credit Transfer.

ref (Optional) The Remittance Information (a structured creditor reference code). Note: If a reference code is given text must be empty.

text (Optional) The Remittance Information (an unstructured text). Maximum Length is 140 characters. Note: If a text is given ref must be empty.

information (Optional) Additional information for the user. Maximum Length is 70 characters.

3 Options

Since this package is a wrapper for the qrcode package, all of its options can also be specified here using the \qrset command.

```
\begin{document}
  \qrset{height=5cm}%
  \epcqr{
     name=Wikimedia Foerdergesellschaft,
     iban=DE33100205000001194700,
     amount=123.45,
  }
\end{document}
```

Changing the level of the QR code does not have an effect, as EPC QR codes have a set level.