The epcqrcode package*

David Wedekind, Paul Kantiem, Wolf Müller epc-qr-code@proton.me

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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)

a b c d e f g h i j k l m n o p q r s t u v w x y z A B C D E F G H I J K L M N O P Q R S T U V W X Y Z O 1 2 3 4 5 6 7 8 9

^{*}This document corresponds to epcqrcode v1.1, dated 2024-04-12.

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

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

/-?:().,'+ 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.