Integration of QR payment support on eKasa FT5000 and FT4000 effective as of 01.03.2026

In the bill on cash registers, the obligation has been added to for all entrepreneurs to receive non-cash payments from **01.03.2026** for payments exceeding €1.

Citation of the law: § 15 Non-cash payment, section 3

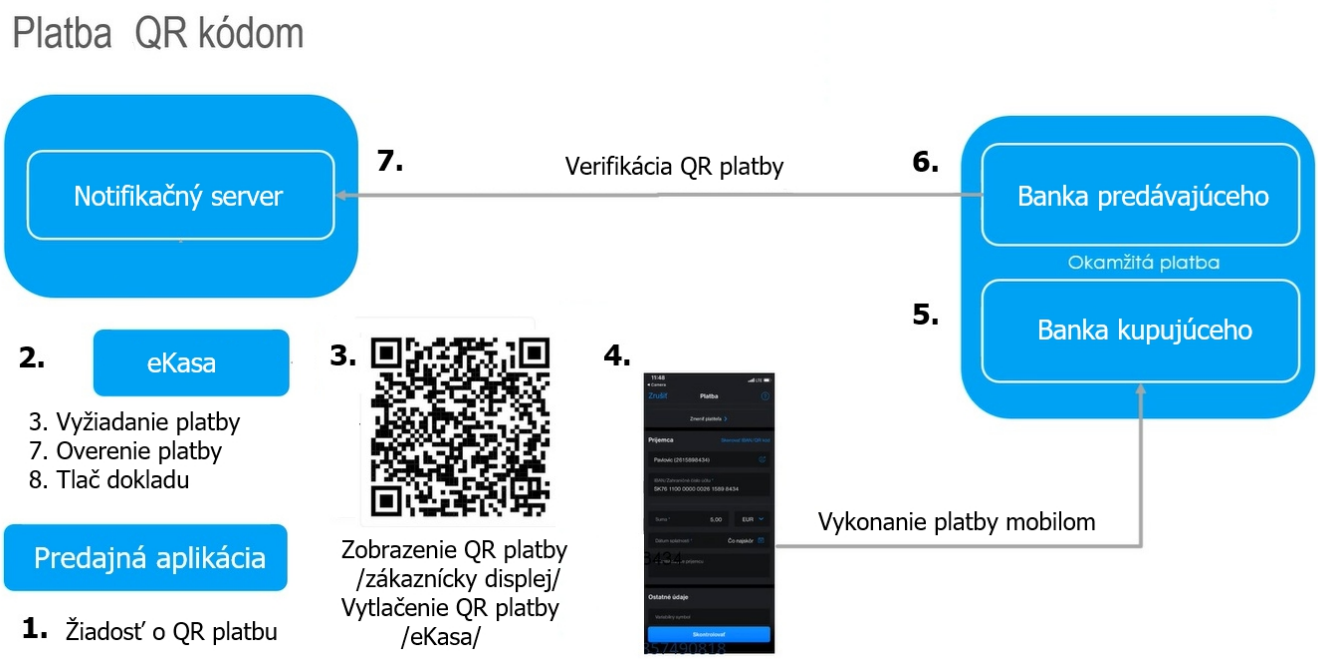
When making a non-cash payment using a payment instrument that allows the payment order to be scanned in the form of a QR code, the Financial Directorate shall provide the technical means enabling the eKasa cash register to obtain confirmation of this non-cash payment; this does not exclude the provision of the technical means by a third party.
If confirmation of such a non-cash payment is not received, a document indicating this fact shall be printed by the eKasa cash register. The technical details of the technical means enabling the eKasa cash register to obtain confirmation of a non-cash payment and the particulars of the document indicating that the payment has not been confirmed shall be specified by the Financial Directorate and published on its website.

The entire implementation of the environment for the use of QR payment requires coordination of the Financial Administration, banking institutions, manufacturers of eKasa solutions and creators of sales applications.

The principle of the entire QR payment process consists in the following steps:

1. The sales app will request eKasa to make the QR payment.
2. The eKasa will contact the notification server /Financial Administration application/ with the request to assign a unique payment identifier.
3. Based on the payment identifier, eKasa generates a payment request that will be displayed in the QR code.

   The QR code is displayed on the customer display or printed on the eKasa.
4. The buyer will scan the QR code with their mobile phone. The QR code will call up the mobile banking application which will automatically fill in the immutable payment details with the option to confirm the payment.
5. The buyer's bank shall make immediate payment to the seller's bank.
6. The seller's bank shall notify the notification server of the confirmation of the payment made.
7. eKasa verifies payment information from the notification server based on the payment identifier.
8. Based on the verification of the payment, a receipt or proof of refusal of payment is printed.



Phases of development and expected timeline of project implementation :

1. 11/2025 Activation of a production notification server by the financial administration.
2. 11/2025 Start of data exchange of individual banks with the notification server
3. 11/2025 Integration of QR payment into eKasa systems
4. 12/2025 Distribution of eKasa cash registers to support QR payments.
5. 12/2025 Modification of sales applications to support QR payments.
6. 01/2026 Integration of QR payments into banking systems.
   The release of the new version of Payme 2.0.0 with QR payment support.
7. 01/2026 Release of mobile banking applications with Payme 2.0.0 version support.
8. 01/2026 Continuously Opening an entrepreneur's bank account/sub-account to which QR payments will be credited.
9. 03/2026 Obligation to allow the buyer to make a non-cash payment, e.g. a QR payment.

QR payment support on eKasa FT5000 and FT4000 printers.

QR code payment support requires uploading a new version of the program.

In case of FT5000, it is a new built-in printer program.
In case of FT4000, a new version of the print manager is uploaded.

When configuring the printer, the following is necessary to set in the Payment by QR code tab:

- ✓ Seller's account name and number, a separate account is used for QR payments, which should have minimal or no transaction fees.
- ✓ The option of displaying the QR payment, displaying the QR code of the payment on the connected customer display, or the printed form of the QR code on the eKasa will be selected.
- ✓ The print of the receipt for the QR payment is selected, similar to the receipt with the payment terminal.
- ✓ The currency <P3 ..P8> will be selected to record the QR payment, to which the sales application will send data on the amount of the QR payment.

We prefer a customer display solution to display the QR code for payment.

The display connects directly to the USB port of the FT5000 printer, or to the free USB port of the PC with the FT4000 printer.

The USB port is also used to power the display.

Advantages of the customer display solution:

- ✓ Information about the amount of the payment when the QR code is displayed.
- ✓ Information about the conduction / rejection of the transaction.
- ✓ Standard two-line display when selling goods.
- ✓ QR code displays on www, e-shop or special offer goods
- ✓ Automatic advertisement screen when idle

Integration of QR payment support in sales applications for FT5000 and FT4000printers

1. Optimal integration

With this document payment method, the payment is first made using a QR code and then the document is printed.

In the eKasa configuration, the currency that is used for a payment with the QR code cannot be selected.

Two JSON files were added to the communication of the eKasa interface.

QR-REQUEST – sending a QR payment request.

Request syntax: **<ESC>QR-REQUEST<ESC>e**

Click on **QR-REQUEST link with description**

QR-RESPOND – the response to the request will be returned automatically. Error returns NAK - 0x15

Response syntax:

ACK + **number of response characters** QR-RESPOND + response **QR-RESPOND**

Click on **QR-RESPOND link with description**

We recommend to extend the DB by column **QrId** – unique transaction identifier of the FS notification server.

The QrId identifier should also appear on the bank statement to identify the payment.

The QrId identifier will also be used when complaining or tracking a payment.

Example QrId : QR-ab29e346f1d841c8a95a63d857490818

- ✓ The sales application will require you to make a QR payment via eKasa before printing the receipt.
- ✓ The eKasa displays / prints the QR code to be scanned by the mobile phone to make the payment.
- ✓ The sales application will wait for a response from eKasa. / A sequence of actions is performed during the transaction and a longer waiting time for a response is to be expected. The QR code scanned by a mobile phone ► payment confirmation in the bank application ► payment transfer from the buyer's bank to the seller's bank ► payment verification bank ► notification server ► payment verification eKasa ► sending a response to the PC /.
- ✓ After verification of the payment, the sales application issues a document that has the amount paid in the currency intended for recording QR payments. The recorded amount is used in the quantification and subsequent printing of the balance closures.
- ✓ If the payment verification fails, the sales application should offer a different type of document payment.

Sales application QR payment request

eKASA – code display

MOBILE - code photo

Click to open the application

Bank application – shows payment

Buyer check and payment confirmation

2. Easy integration

This method can be used in sales applications with minimal program modification, extend the waiting time for a response, and assign the currency to QR payment. In the eKasa configuration,the payment method used for QR code payment must be selected. The disadvantage of the solution is that the document is sent first and then the sales application learns whether the payment was made successfully.

- ✓ The sales application sends a document to the printer where it sends the amount of QR payment in the selected currency.
- ✓ If the currency of QR payment is found in the document, eKasa will display / print the QR code for scanning with a mobile phone.
- ✓ eKasa verifies the payment. If the verification is successful, the receipt is printed. If the payment cannot be verified, an error message with an error number will be displayed / printed. When verifying, a longer response time should be taken into account.
- ✓ The sales application reads information about the ESC I or ESC document! I.
- ✓ If the document reports an error in the end, the sales application should issue a new document and offer a different type of payment.

Integration notes no. 1 - Optimal Integration

The variable **type** in the JSON format defines the specific type of request and the meaning of the JSON command.

type = QVERKO/PAYME/QRCODE/NOTIFY/DISPLAY

- ➢ **QVERKO** - payment of a receipt or invoice using a QR code carried out in accordance with Act on cash registers. Payment verification is carried out by eKasa via the FS notification server.
  The amount of the payment is limited by the limit set by the buyer in his bank for card payments. The payment made is considered a cash payment method of the document.
  The document is subject to the following restrictions :
  Act on restricting cash payments - maximum amount of €15,000
  of the Act on value added tax - document for VAT deduction purposes maximum amount of €400.
  The limitation of €400 does not apply to the type of document for invoice payment in cash.

  Sales application request to make a QR payment - click on QR-REQUEST QUERKO
  Automatic response from eKasa about the QR payment made - click on QR-RESPOND QUERKO

- ➢ **PAYME** – non-cash payment of a Payme invoice, equivalent to Pay by Square. The generated QR code is used to automatically fill in the billing data into the mobile banking application. Information about the payment made will be sent to the account holder's mobile phone. eKasa will not know this information. The amount of the payment is limited only by the limit set by the buyer in his bank for bank transactions.

  Sales application request for displaying the QR code for payment - click on QR-REQUEST PAYME
  eKasa response on displaying the QR code for payment - click on QR-RESPOND PAYME

- ➢ **QRCODE** - only generating a text string to make a QR payment for QVERKO. This string can be used by the sales application to display the QR code on the computer monitor or the self-service vending machine monitor. Subsequently, it must be called NOTIFY to verify the execution of the QR payment by eKasa.

  Sales application request to generate a QR payment string - click on QR-REQUEST QRCODE
  Response from eKasa, return of the QR code generation chain - to, please click on QR-RESPOND QRCODE

- ➢ **NOTIFY** – verification of QR payment execution based on QrId transaction identifier.

  Sales application request for QR payment verification - click on QR-REQUEST NOTIFY

  eKasa response, QR payment verification - click on QR-RESPOND NOTIFY

- **DISPLAY** – the function of customer´s display, displaying of two-line text or any QR code on the display. Possibility to use a QR code, for example, to redirect to the e-shop or the seller's website. No JSON response is returned for this function. Only the ACK confirmation is returned - 0x06.
  If an error occurs, it will return NAK – 0x15

Sales application request to display data on the display - click on QR-REQUEST DISPLAY

INPUT JSON FILE VARIABLES

The variable **type** in the JSON format defines the meaning of the JSON command. Depending on the type variable, the variables according to the following table are required.

Designation

1 - **variable must be filled in**

0/1 - **variable is used if filled**
- if not specified and necessary, it is filled with data from the eKasa configuration

0 - **variable is not used in processing**

VARIABLE TYPE	QUERKO	PAYME	QRCODE	NOTIFY	DISPLAY
PREMENNÁ TYPE	QUERKO	PAYME	QRCODE	NOTIFY	DISPLAY
ReceiptFormat	1	1	1	1	1
Version	1	1	1	1	1
ReceiptType	1	1	1	1	1
Id	0/1	0/1	1	1	0
QrId	0	0	0	1	0
Line1	0	0	0	0	0/1
Line2	0	0	0	0	0/1
Value					
QrCode	QrCode	QrCode	QrCode	QrCode	QrCode
data	0	0	0	0	0/1
printOnPrn	0/1	0/1	0	0	0
showOnDsp	0/1	0/1	0	0	0
timeout					
Bank	Bank	Bank	Bank	Bank	Bank
IBAN	0	0/1	0	0	0
VS	0	1	0	0	0
SS	0	0/1	0	0	0

OUTPUT JSON FILE VARIABLES

Based on the variable **type** in the input JSON format, the individual variables in the JSON response are returned according to the following table.

Designation 1 - variable will be filled in

0 - variable will not be filled in

VARIABLE TYPE	QUERKO	PAYME	QRCODE	NOTIFY	DISPLAY
ReceiptFormat	1	1	1	1	0
Version	1	1	1	1	0
ReceiptType	1	1	1	1	0
type	1	1	1	1	0
Id	1	1	1	1	0
QrId	1	0	1	1	0
QrCode	0	0	1	0	0
Value	1	1	1	1	0
Date	1	0	0	1	0
Time	1	0	0	1	0
IBAN	1	1	1	1	0
errCode	1	0	1	1	0
errMsg	1	0	1	1	0