



# SimplePOS [PT] Guidelines

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*Usage of the Certified EFSTA System*

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## 1. Basic Conditions

SimplePOS is intended to be used as POS system certified according to Portuguese law. The role of your POS software then is the data entry frontend, final transactions are registered over EFR. Fiscal documents have to be printed as returned after fiscalization.

Although all cryptography, data storage/archiving and delivery to the Fiscal Authority is done by EFSTA, some fiscal rules regarding frontend application security and data content apply. To use the certified system you have to follow strictly the constraints in the following chapters.

If more freedom is required regarding e.g. print layout or document handling, you can present your software to the Fiscal Authority. Also then EFSTA can help you with consulting and technically with the EFR subsystem.

## 2. Operator Login

- the POS software must be protected by an operator login
- the operator must have a function to change his password
- a predefined password has to be changed on first login
- operator name & password must have a minimum length of 2 characters
- every Operator must be able to create a SAF-T export for the current and previous year (button or menu item)
- if EFR responds with a field UserMessage, this has to be shown to the operator
- specify the operator with every transaction registered (ESR fields operator ID Opr and operator name OprN)

## 3. Master Data

- the POS software must be able to store all special characters (e.g. "certificação") used in Portugal in text fields (e.g. customer name, item description), but only characters of codepage Windows-1252 are valid.
- description fields must be of 2 characters length minimum

## 4. Transaction Types

### **Fiscal Documents (mandatory):**

- Normal sale (anonymous): Fatura Simplificado
- Return / Refund: Nota de Credito
- Invoice (including customer reference): Fatura has to be printed twice (original and copy)
- Void: Anulação
- Reprint

## Special transaction (mandatory):

These functions can be implemented in your POS software, or you provide a browser shortcut to the SimplePOS UI

- Recovery of lost documents: Recuperação de documentos
- Integration of manual documents: Documentos manuais

## 5. Constraints

- only discounts, no surcharges are allowed
- anonymous sale (Fatura Simplificado) only allowed up to EUR 1000 above, you have to specify the customer name and NIF
- cash payment is allowed only up to EUR 3000
- a reason text (2 characters minimum) has to be provided on refunds and voids

## 6. Printing

- the document layout for printing is part of the certified SimplePOS solution and may not be changed
- after the POST /register transaction request call one of the following endpoints to get the print document:
  - GET /render/pdf for .pdf document
  - GET /render/text text to be printed with fixed font 42 columns per line
  - GET /render/escpos data stream for Epson TM-T88 or compatible
- although the print body may not be changed, inserting e.g. a company logo before and appending advertising text behind the body is permitted

If EFR is installed directly on the POS computer, also automatic printing to an Epson TM-T88 printer may be an option. For this specify the printer in EFR Profile in

<http://localhost:5618>:

Attributes	Printer=Epson_TM
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Depending on the communication interface see the additional steps below. After having saved the profile data, restart your computer.

USB:

Windows:

- connect your compatible printer to the system
- download [https://public.efsta.net/EFR/resources/zadig\\_v2.0.1.160.zip](https://public.efsta.net/EFR/resources/zadig_v2.0.1.160.zip)
- and run zadig.exe

Linux:

- apt-get install -y build-essential libudev-dev
- in case of LIBUSB access errors the accessibility of USB interfaces has to be configured

e.g. insert in /lib/udev/rules.d/50-udevdefault.rules: SUBSYSTEM=="usb",  
ATTRS{idVendor}=="04b8", ATTRS{idProduct}=="0201", MODE="0666"

LAN:

Attributes example with IP:

Printer=Epson\_TM Printer\_Port=ETH:10.0.0.123

Serial:

Attributes example with port and baudrate:

Printer=Epson\_TM Printer\_Port=COM1:19200

## 7. Final Conformity Check

Please regard, that at the end of the software implementation there will be a conformity check with the Portuguese EFSTA representative, where you will have to present the workflow of your POS software in a video conference.