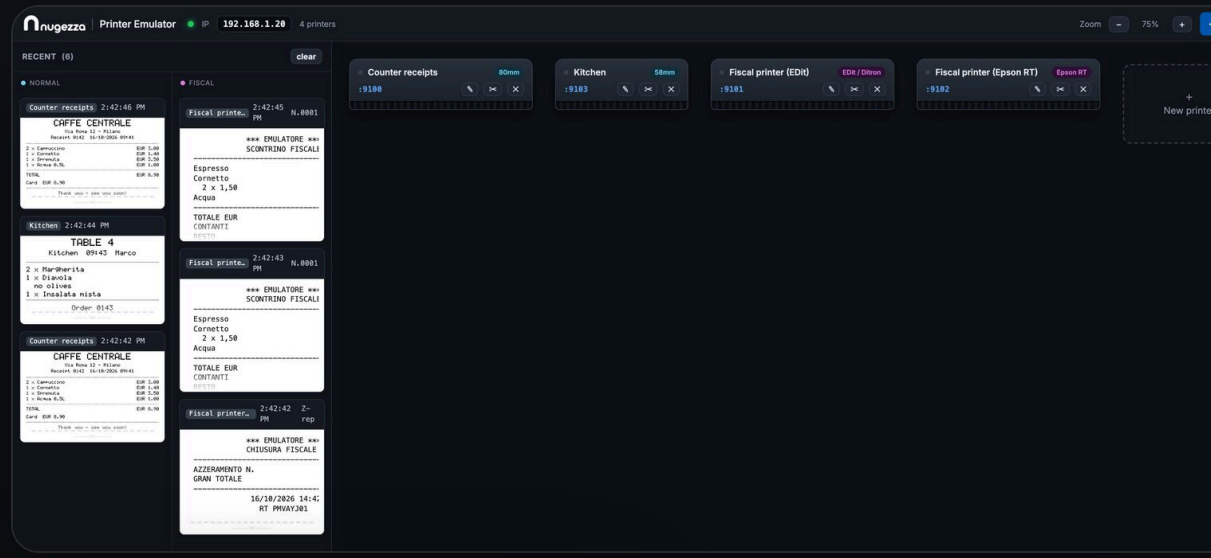
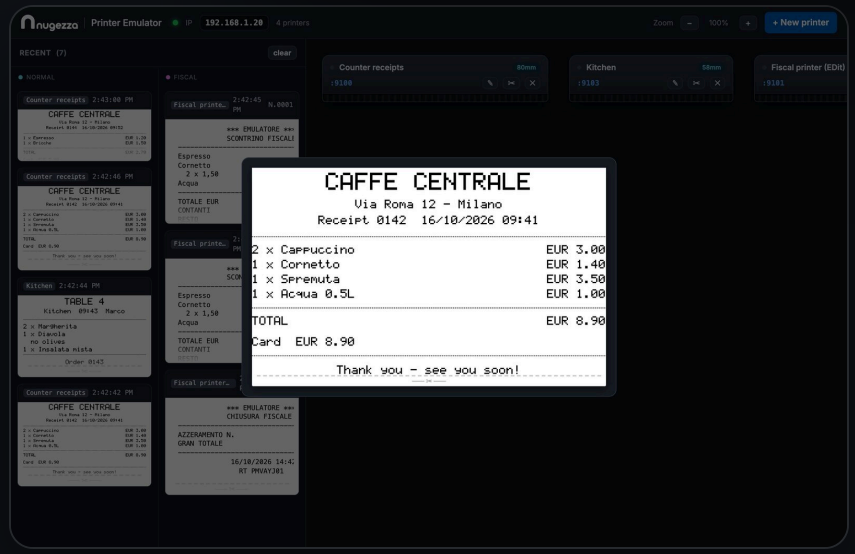
Nugezza Printer Emulator

Receipt, kitchen, label and fiscal printers on your computer: test POS printing without a single printer

Complete guide · version 1.2 · November 2026





Made by Nugezza

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CHAPTER 1

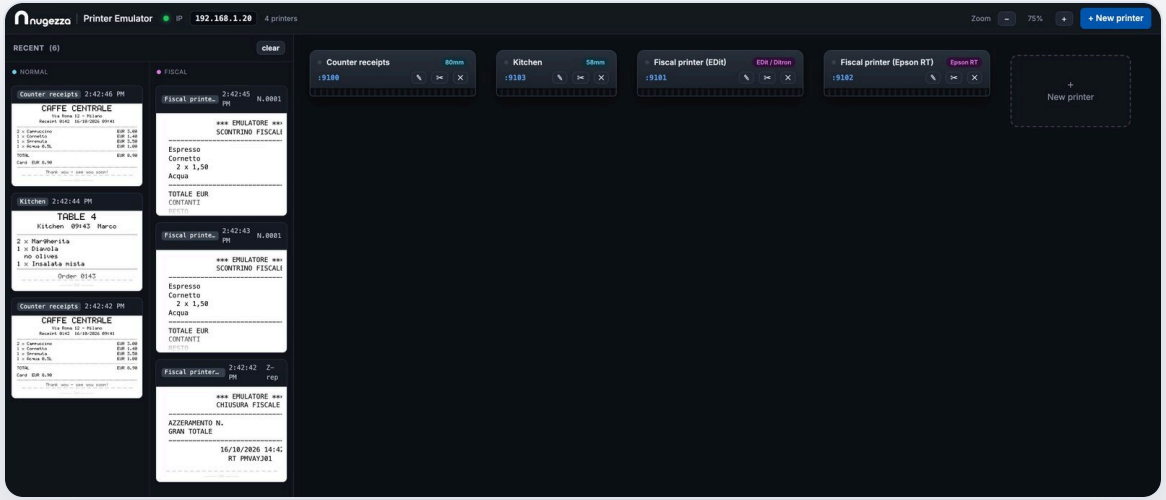
Printer Emulator at a glance

Printers that live on your screen | Who it is for | What you need

Printers that live on your screen

Printer Emulator pretends to be a shop's printers. Each printer you create listens on its own network port, exactly like a real network printer, and the POS prints to it without knowing the difference. The paper feeds out of the machine on screen, is cut, and drops into a history you can open at full size.

- Thermal receipt printers (ESC/POS), 58 or 80 mm: the counter, the kitchen, the bar.
- Label printers (TSPL): each label drawn at its own size, as the label printer prints it.
- Italian fiscal printers (RT): the EDit / Ditron family and Epson, with real receipts, document numbers and Z reports.
- As many printers as you want, all running at the same time.
- It answers the POS the way the hardware does, so the POS reports success.



Four printers side by side, and the history on the left

Who it is for

- Installers setting up a shop: check every printer, ticket and receipt before the hardware arrives.
- Developers of a POS or an online shop: see exactly what your code prints, dot for dot.
- Shop owners: try a new receipt layout or a kitchen ticket without wasting paper.
- Training: staff practise on the till with every printer working.

> It is a test tool. Fiscal printers here are simulated: nothing is ever sent to the tax authority (Agenzia delle Entrate).

What you need

Computer	Windows 10 or 11 (64-bit), a Mac with macOS 11 or newer (Intel or Apple Silicon), or 64-bit Linux.
Network	To print from a tablet or a till: the computer and the device on the same network.
Firewall	The computer's firewall must let the printer ports in (chapter 5).
Licence	Printer Emulator on your Nugezza account: the free 30-day trial, a subscription or for good (chapter 2).
Internet	To sign in, and at each payment date of a monthly or yearly plan. The printers work offline.

CHAPTER 2

Licence and prices

Trial, subscription or for good

Buying it

Trial, subscription or for good

A licence is for one computer: the one that runs the emulator. The POS devices printing to it need nothing.

Free trial	30 days, once per account, no card
Monthly	€2.99 a month
Yearly	€19 a year
For good	€29, once

> A subscription renews while it is active; if you cancel it, the emulator keeps working until the end of the period paid for.

Buying it

1. **Sign in on this page**
   With your Nugezza account: the same account Nugezza's customers use. No account yet? Create one when you sign in.

2. **Start the trial, or buy**
   «Try it free for 30 days», or choose monthly, yearly or for good and pay by card.

3. **Sign in in the app**
   The Nugezza ID form fills the app's window (chapter 3). The first sign-in on an account starts the 30 free days by itself.

CHAPTER 3

Install and sign in

Installing it

Sign in with Nugezza ID

Signed in

Installing it

1. **Download the installer**
   Press the download for your computer on this page: Windows, Mac or Linux.

2. **Run it**
   Windows: open the file and follow the installer; it adds Nugezza Printer Emulator to the Start menu. Mac: open the .dmg and drag the app into Applications. Linux: make the .AppImage executable and open it.

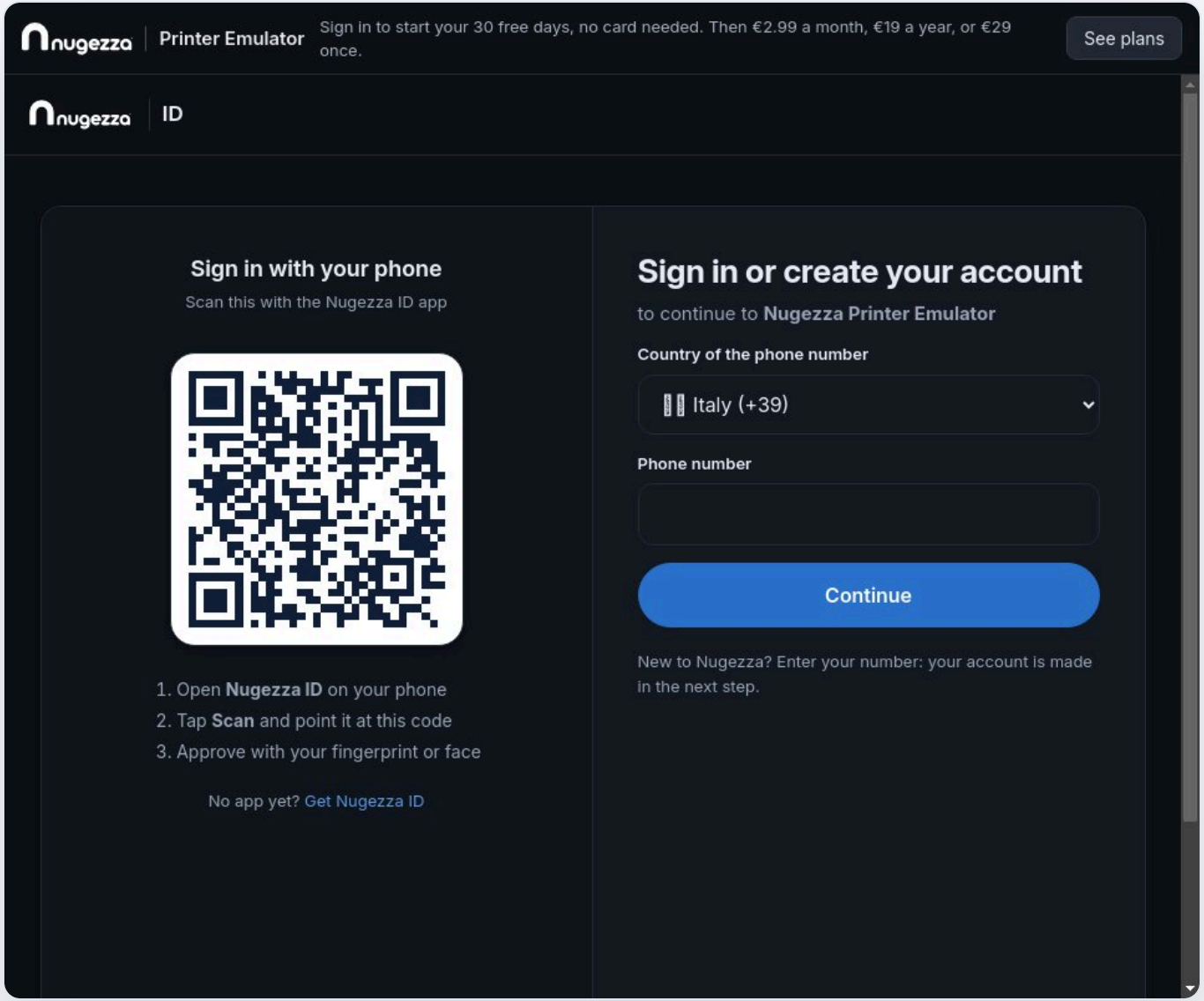
3. **Start it**
   The first time, the Nugezza ID form fills the window. After that, the workshop opens straight away.

> Opening it a second time brings the window that is already open to the front: only one copy runs.

Sign in with Nugezza ID

1. **The form is already there**
   It is the same Nugezza ID form every Nugezza site shows. The app never sees your password.
2. **With your phone**
   Open the Nugezza ID app on your phone and scan the QR on the screen.
3. **Or with your number**
   Choose the country code, type your phone number and password, then the second step. No account yet? Create one on the same form.

> Signing in needs the internet. The app gets its licence from your account.

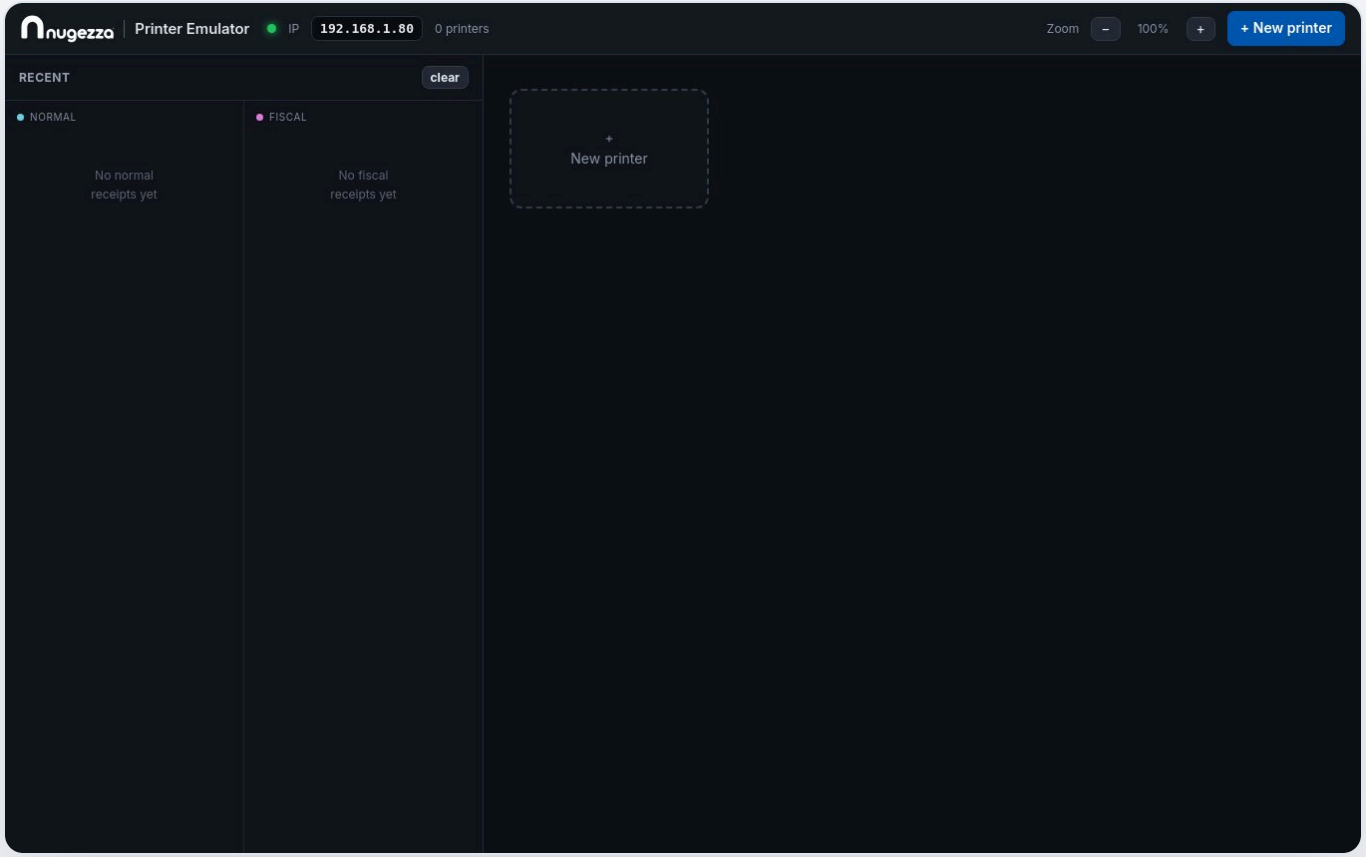


The Nugezza ID form in the app's window

Signed in

The workshop opens. Your first sign-in starts the 30 free days.

- Help › «Licence…» shows the licence and the account at any time, and signs this computer out.
- A monthly or yearly plan runs until its next payment, offline too. Then the app needs the internet, says «Waiting for your next payment», and opens by itself once the payment is in.
- Bought once, it runs offline for good and never asks.



Signed in: the free days have started

CHAPTER 4

Your printers

Creating a printer

Which type?

The buttons on a machine

Creating a printer

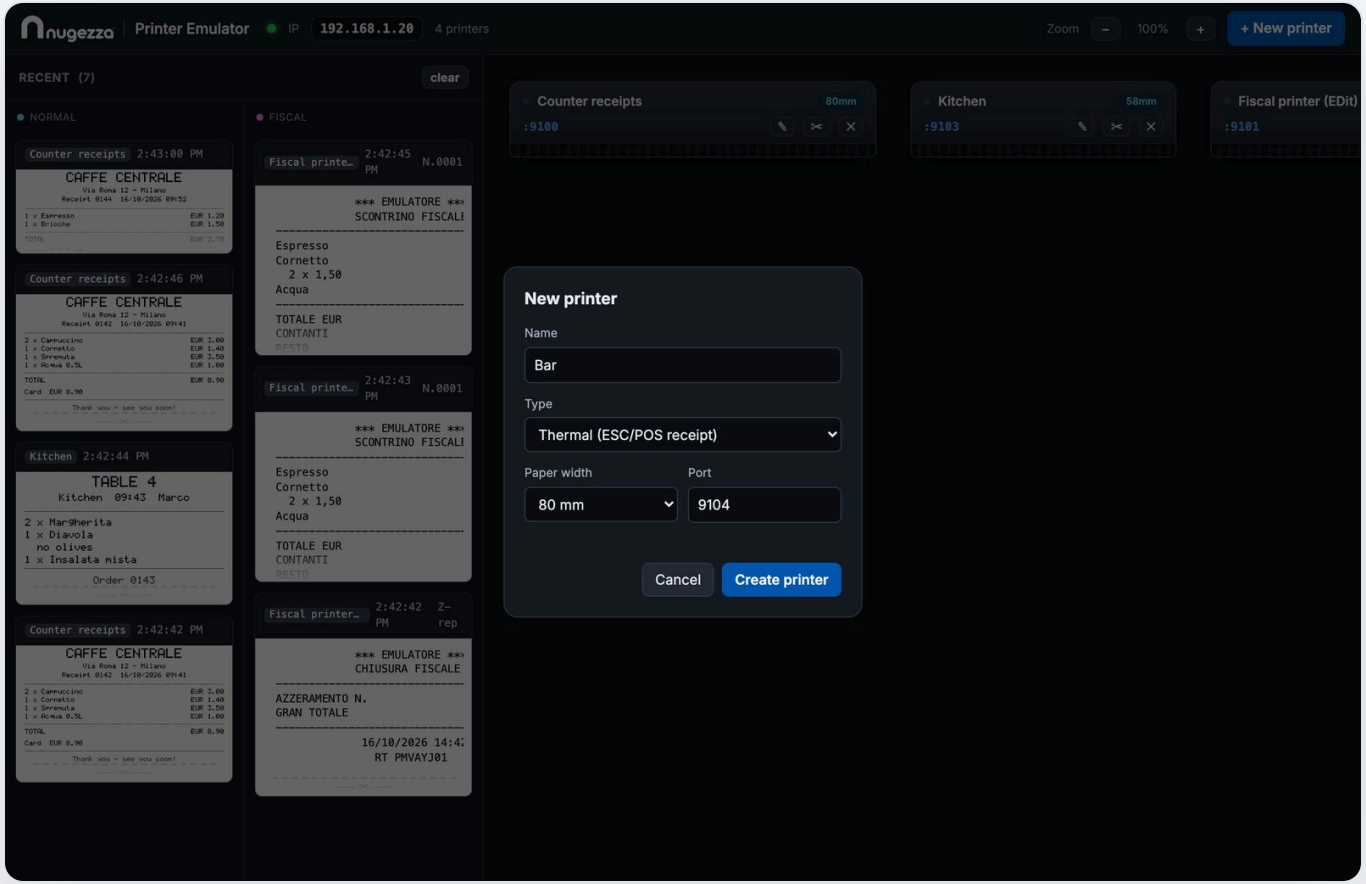
1. **+ New printer**
   Press «+ New printer» at the top right, or the dashed «New printer» card after the last machine.

2. **Name**
   What it is for: Counter, Kitchen, Bar, Fiscal…

3. **Type**
   «Thermal (ESC/POS receipt)», «Fiscal RT — EDit / Ditron» or «Fiscal RT — Epson».

4. **Paper width and port**
   80 or 58 mm, like the real roll. The port suggested is the next free one from 9100: keep it.

5. **Create printer**
   The machine appears in the workshop and is listening at once.



«New printer»

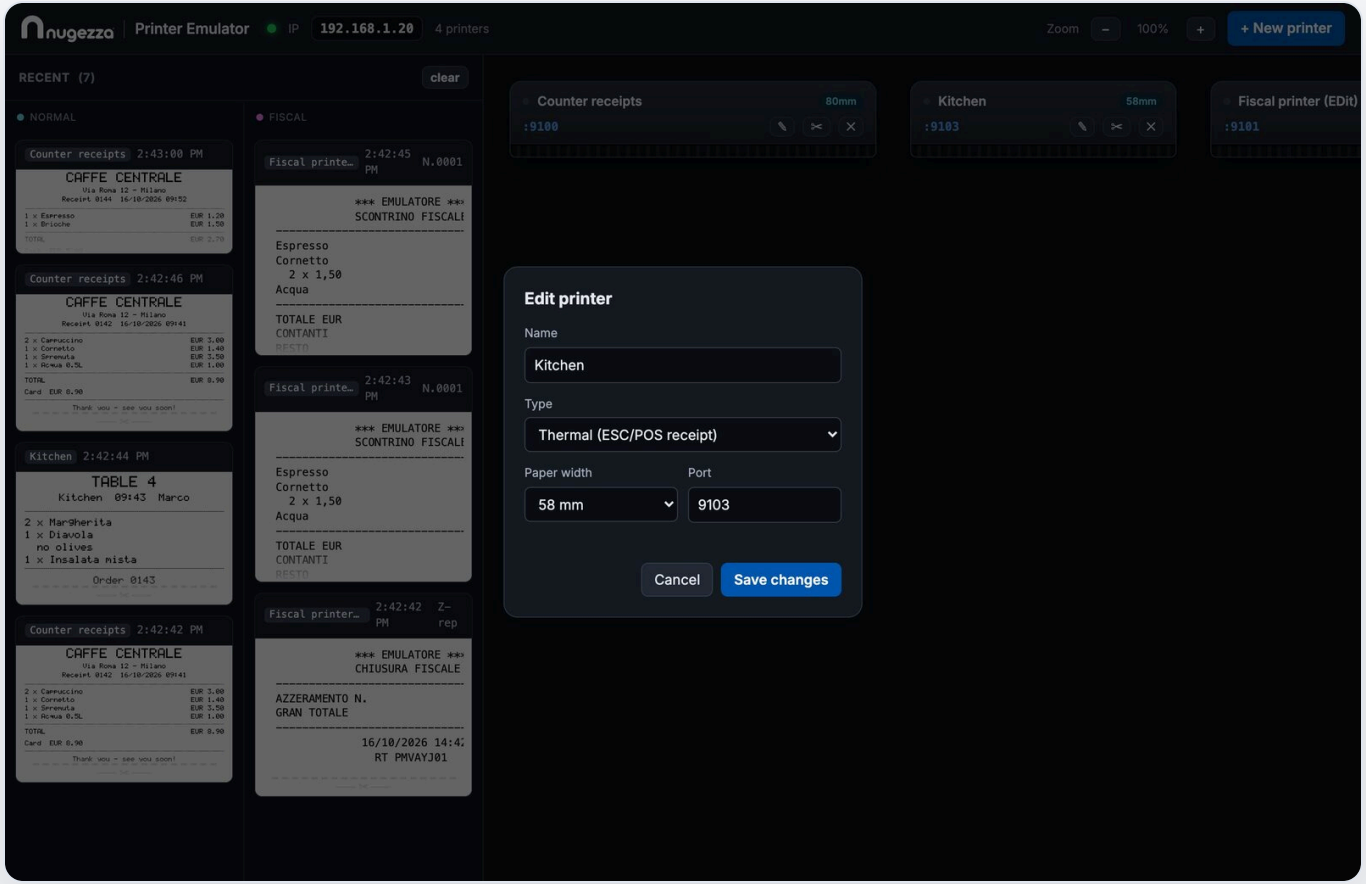
Which type?

Thermal (ESC/POS receipt)	Receipt and kitchen printers that speak ESC/POS, such as the Epson TM or Xprinter models. The POS sends ESC/POS; the emulator prints text and pictures exactly as the hardware would.
Fiscal RT — EDit / Ditron	Italian fiscal printers of the EDit / Ditron family, which speak the XON/XOFF protocol over TCP.
Fiscal RT — Epson	Epson RT fiscal printers, which speak HTTP/XML.
Label (TSPL)	Label printers that speak TSPL. Each label is drawn at its own size, as the label printer would print it.

> Choose the same family as the printer configured in the POS: an Epson RT and an EDit speak different languages.

The buttons on a machine

- The pencil changes the name, type, paper width or port. Saving moves the printer to its new port at once.
- The scissors cut the paper by hand (chapter 6).
- The cross removes the printer, after asking.
- The port number copies itself when you click it; so does the IP at the top left.
- «Zoom − / +» makes the machines and the paper smaller or larger.



«Edit printer», opened with the pencil

CHAPTER 5

Connect the POS

Point the POS at the emulator

Open the firewall

The workshop in a browser

Point the POS at the emulator

1. **The computer's address**
   The IP at the top left of the workshop (for example 192.168.1.20) is this computer's address on the network. Click it to copy it.

2. **The printer's port**
   Each machine shows its port, for example :9100.

3. **In the POS**
   Add a network (LAN) printer with that IP and that port, of the same type and paper width.

4. **Print**
   Print a test from the POS: the paper feeds out of the machine.

> When the POS runs on the same computer, 127.0.0.1 works too. From a tablet or a till, always use the computer's IP.

Open the firewall

A computer's firewall can block connections from other devices without saying anything: the POS then reports «Printer timeout». On Windows, let the printer ports in once, from PowerShell opened as Administrator:

- Change 9100-9110 if you use other ports.
- Windows: make sure the network is set as «Private», and that the tablet is not on a guest Wi-Fi that keeps devices apart.
- Mac: when macOS asks whether Nugezza Printer Emulator may accept incoming connections, choose Allow (or System Settings › Network › Firewall).
- Linux with the firewall on (ufw): sudo ufw allow 9100:9110/tcp

```
New-NetFirewallRule -DisplayName "Nugezza Printer Emulator" -Direction Inbound -Protocol TCP -LocalPort 9100-9110 -Action Allow
```

The workshop in a browser

File › «Open viewer in browser» opens the same workshop in your web browser, at port 9110 of this computer. Handy on a second screen, or to watch the prints from another computer on the network (let port 9110 through the firewall too).

CHAPTER 6

Printing and the history

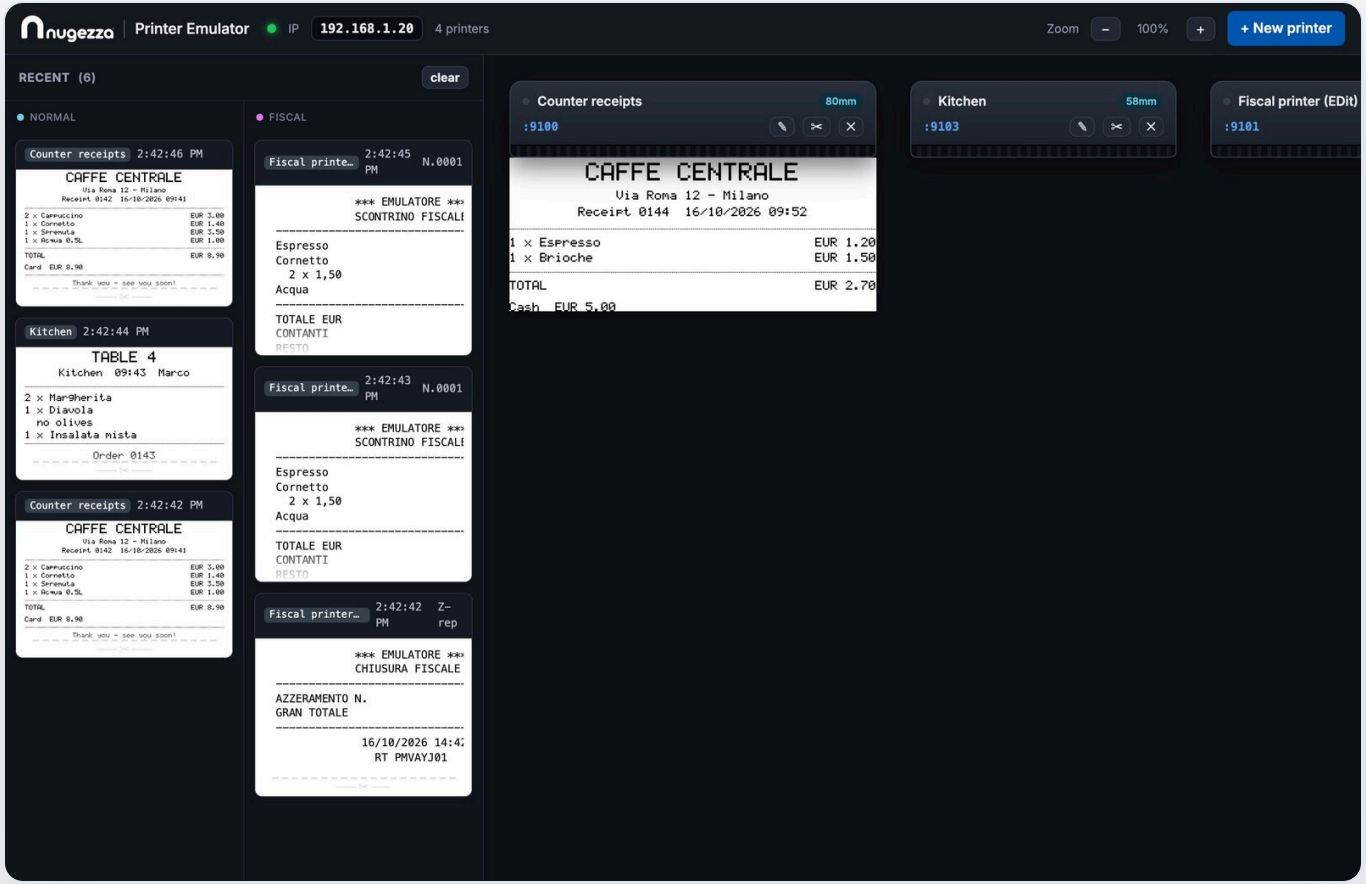
Paper that behaves like paper

The cut, and the history

A receipt at full size

Paper that behaves like paper

When the POS prints, the machine's light comes on and the paper feeds out of the slot. It stays there, growing with every print, until it is cut: exactly like a real roll.

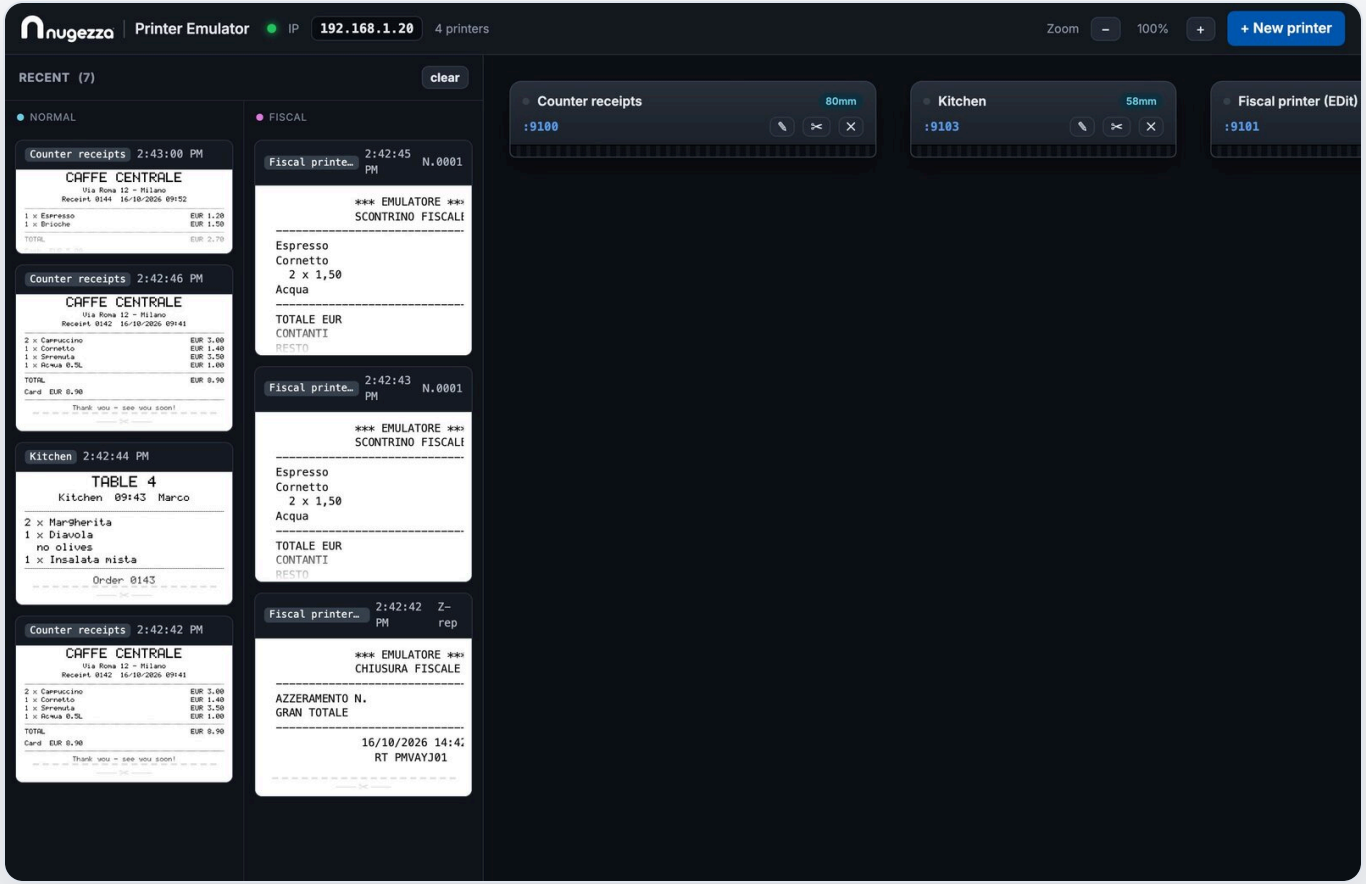


A receipt still on the roll, before the cut

The cut, and the history

The POS usually ends a receipt with a cut command: the paper is cut and drops into «Recent» on the left. If the POS does not cut, press the scissors on the machine.

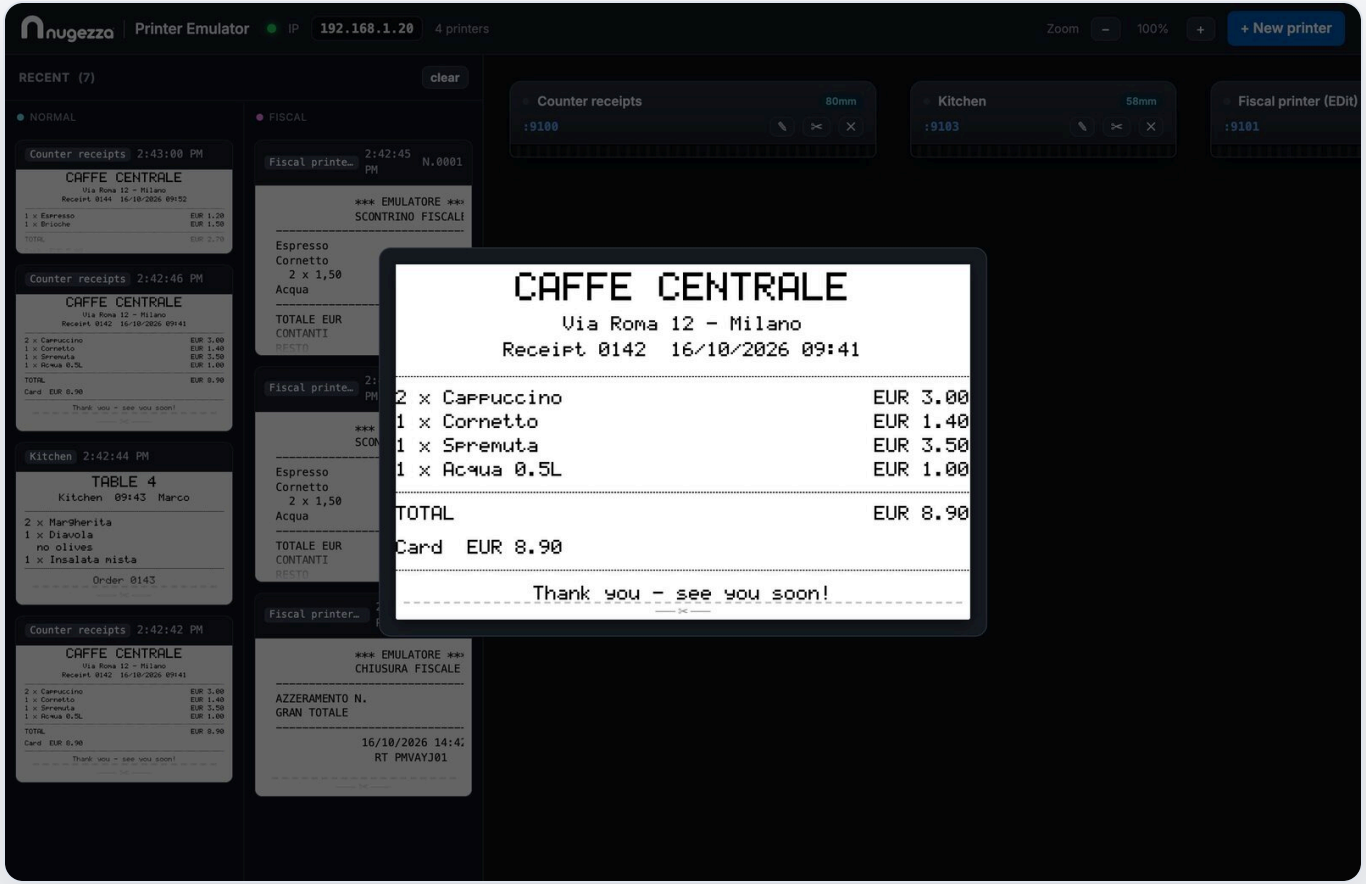
- «Normal» holds receipts, kitchen tickets and labels; «Fiscal» holds fiscal receipts and reports.
- Each card shows the printer, the time and, for fiscal ones, the document number.
- «clear» empties the history. It is also emptied when the app closes.
- A cash-drawer command shows «💵 Cash drawer opened» in the middle of the screen.



Cut receipts in the history

A receipt at full size

Click a card and the receipt opens at the printer's own resolution: one dot of the printer is one pixel on screen. This is how you check a logo, a QR code, the alignment of a column or a font that is too small, before it reaches real paper.



A receipt opened at full size

CHAPTER 7

Fiscal printers

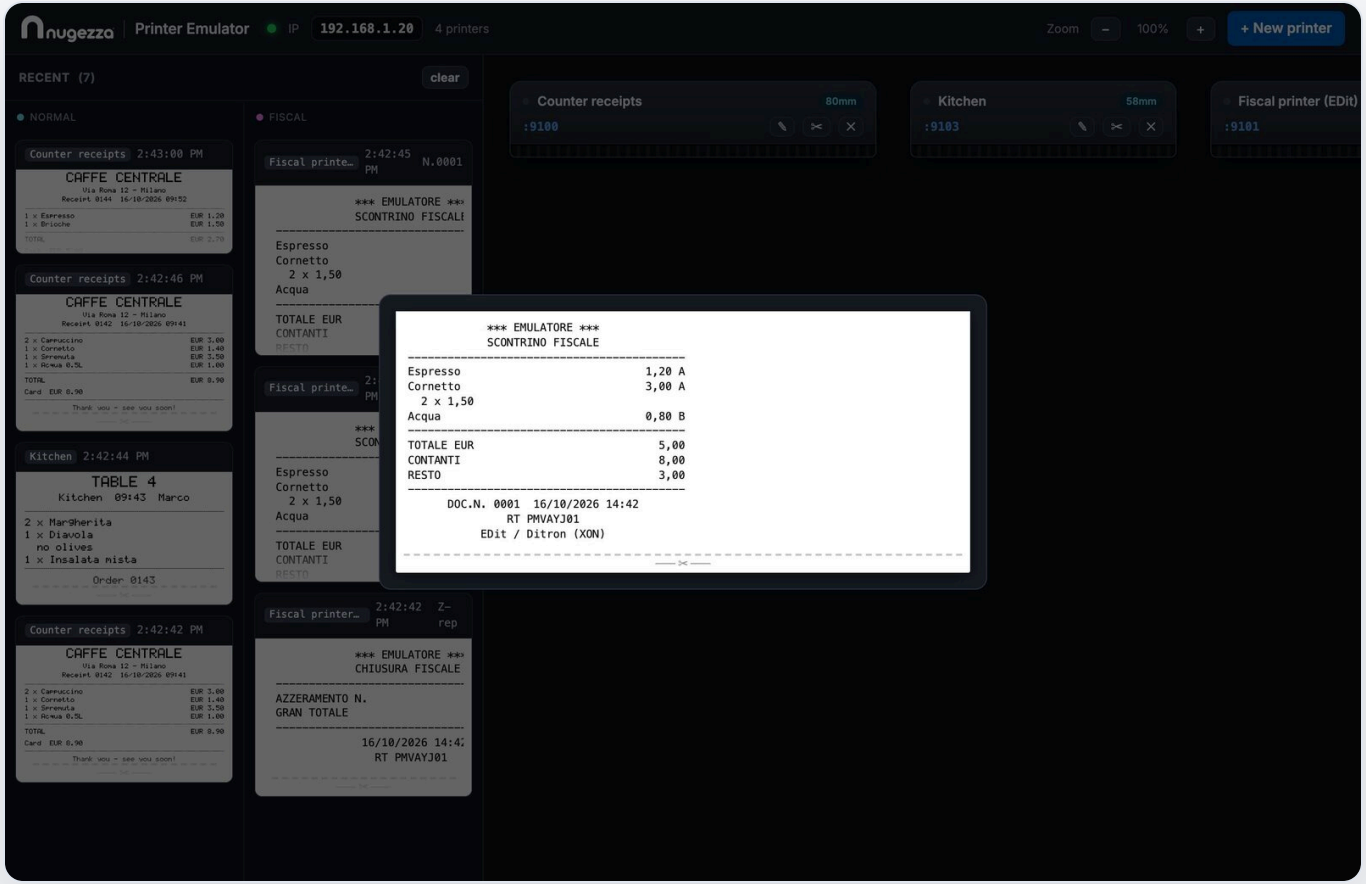
A fiscal receipt

X and Z reports

A fiscal receipt

A fiscal printer rebuilds the receipt (scontrino) from what the POS sends: items, quantities, VAT department letters, total, payment and change, then the document number and the date. The POS gets back the document number, as from the real printer.

- EDit / Ditron: XON/XOFF with the fiscal footer, as the real printer answers.
- Epson: HTTP/XML, with the same reply an Epson RT gives.
- Document numbers count up from 0001 while the app runs.



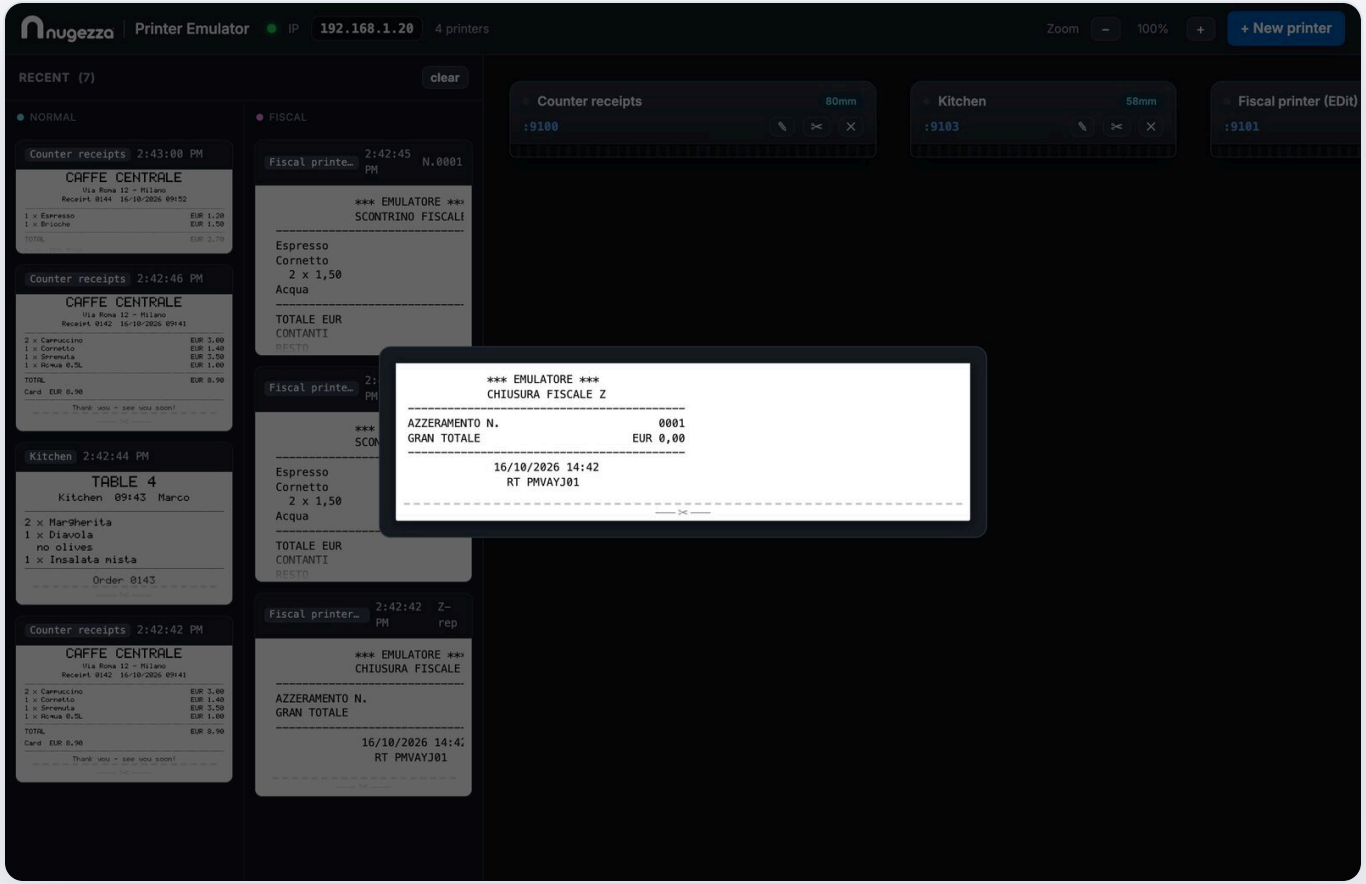
A fiscal receipt from the EDit / Ditron printer

X and Z reports

The POS can ask the fiscal printer for the day's reports, and the emulator keeps a running daily total for each fiscal printer.

X report (LETTURA X)	The day's total so far. Nothing is reset.
Z report (CHIUSURA FISCALE Z)	The day's closure: the total, the closure number, then the daily total starts again from zero.

> Document numbers, Z numbers and totals are simulated, and start again when the app restarts. Nothing is sent to the tax authority.



A Z report

CHAPTER 8

If something goes wrong

Common problems

Questions

Common problems

The POS says «Printer timeout»

The computer's firewall is dropping the connection: let the ports in (chapter 5). Check the tablet and the computer are on the same network, not on a guest Wi-Fi.

«Some printers did not start»

Their port is used by another program or another printer. Press the pencil on that machine and give it a free port.

A fiscal print is refused

The type does not match the POS: an Epson RT speaks HTTP, an EDit / Ditron speaks XON/XOFF. Change the type with the pencil.

The POS says the connection was refused

Nothing is listening on that port: check the port in the POS is the one on the machine, and that the emulator is open.

Nothing appears when I print from a tablet

The POS must use the computer's IP (top left of the workshop), not 127.0.0.1 or localhost.

It says the licence is already in use on another computer

A licence belongs to one computer. To move it to this one, ask us in the chat at developer.nugezza.com.

Questions

Does it need the internet?

To sign in, and at each payment date of a monthly or yearly plan. The printers run on your computer and your network.

Does it send anything to the tax authority?

No. It is a test tool: fiscal numbers are simulated and nothing is transmitted.

Can I use it on more than one computer?

Each computer needs its own licence, because a licence belongs to one computer.

How many printers can I have?

As many as you like, each on its own port, all at the same time.

Which fiscal printers does it imitate?

The EDit / Ditron family and Epson RT: the two families the Nugezza POS supports.

Does it work with POS systems other than Nugezza?

Any POS that prints ESC/POS to a network printer, or speaks the EDit or Epson RT protocols, can print to it.

Nugezza Printer Emulator

Nugezza support

For licences, updates and anything else.

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