

# Test guide: reading filament usage from a Klipper printer

For 3MF Katalog Manager v0.14.0 · As of 25 Sep 2026 · Takes about 5–10 minutes · Linux, Windows and macOS

## Hi, and thanks for helping out!

The next version of 3MF Katalog Manager gets a **printer connection**: the app asks your Klipper printer how much filament a print really used and, after you confirm, deducts it from the right spool. Gharac Durac has already tested this with a **Sovol SV08**. Now I'd like to find out whether other printers answer the same way.

**Nothing is changed on your printer.** You only open three addresses and send me what the printer answers.

## 1 Does my printer qualify?

The printer connection talks to **Moonraker**, the small web server that runs alongside Klipper. If you control your printer in the browser with **Mainsail** or **Fluidd**, you have Moonraker.

| PRINTER                                                            | MOONRAKER                                | WHERE THE WEB UI USUALLY IS                      |
|--------------------------------------------------------------------|------------------------------------------|--------------------------------------------------|
| Sovol SV06 Plus ACE, SV07, SV08, SV08 Max                          | stock                                    | Mainsail, <code>http://&lt;IP&gt;</code>         |
| Elegoo Neptune 4 / 4 Pro / 4 Plus / 4 Max                          | stock                                    | Fluidd, <code>http://&lt;IP&gt;</code> (port 80) |
| Qidi Q1 Pro, Plus4, X-Plus 3, X-Max 3                              | stock                                    | Fluidd, <code>http://&lt;IP&gt;:10088</code>     |
| Creality K2 / K2 Plus                                              | stock, unclear if reachable from outside | please test                                      |
| Creality K1 / K1C / K1 Max, Ender-3 V3 / V3 KE                     | only when rooted (Helper Script)         | Fluidd :4408 , Mainsail :4409                    |
| Flashforge Adventurer 5M, Anycubic Kobra 3                         | only with mod firmware                   | depends on the mod                               |
| Voron, RatRig, conversions with a Raspberry Pi (MainsailOS, KIAUH) | yes                                      | <code>http://&lt;IP&gt;</code>                   |
| Bambu Lab, Prusa, Elegoo Centauri Carbon                           | no                                       | not supported (yet)                              |

**Especially valuable** are printers nobody has tested yet, above all Qidi, Elegoo Neptune 4 and Creality K2. A printer where you have set up a **login** in Mainsail/Fluidd helps too.

## 2 Preparation

- ☐ The printer is switched on.
- ☐ Your computer is on the same network as the printer (same Wi-Fi or LAN).
- ☐ You know the address you open Mainsail or Fluidd with, for example `192.168.1.50` or `192.168.1.50:10088`.

Below, `<ADDRESS>` stands for exactly that address, including the port if you need one. If nothing answers there, try the same IP with `:7125` (Moonraker directly).

## 3 The three requests in the browser (all systems)

This is the easiest way and works the same on Linux, Windows and macOS. Open these three addresses one after another:

| NO. | ADDRESS                                                         | WHAT IT TELLS ME                                                                         |
|-----|-----------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 1   | <code>http://&lt;ADDRESS&gt;/server/info</code>                 | Moonraker version and whether print history ( <code>history</code> ) is enabled          |
| 2   | <code>http://&lt;ADDRESS&gt;/access/info</code>                 | whether a program may connect without logging in                                         |
| 3   | <code>http://&lt;ADDRESS&gt;/server/history/list?limit=5</code> | your last five prints with the filament actually extruded ( <code>filament_used</code> ) |

Firefox shows the answer neatly. To copy it, click **“Raw Data”** at the top, then **“Copy”**. In Chrome, Edge and Safari just select everything (Ctrl+A or ⌘+A) and copy it.

## 4 Alternative: in the terminal

If you prefer the terminal: these commands save the answers straight to files you can attach. Replace `192.168.1.50` with your address.

### Linux macOS Terminal

```
A=192.168.1.50
curl -sS "http://$A/server/info" -o server_info.json
curl -sS "http://$A/access/info" -o access_info.json
curl -sS "http://$A/server/history/list?limit=5" -o history.json
```

`curl` is always installed on macOS and on almost every Linux system. The files end up in the current folder (usually your home folder).

## Windows PowerShell

```
$A = "192.168.1.50"
curl.exe -sS "http://$A/server/info" -o server_info.json
curl.exe -sS "http://$A/access/info" -o access_info.json
curl.exe -sS "http://$A/server/history/list?limit=5" -o history.json
```

Important: type `curl.exe` with ".exe". Without it, PowerShell runs a different program with different options. `curl.exe` ships with Windows 10 and later.

## 5 Things to know per system

| SYSTEM  | WHAT TO WATCH FOR                                                                                                                                                                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| macOS   | Since macOS 15, apps need permission to access the local network. If Chrome or Firefox won't load the address although the printer is reachable: <b>System Settings → Privacy &amp; Security → Local Network</b> and switch the browser on. Safari is usually not affected. |
| Windows | Windows Firewall normally doesn't block outgoing requests. If it works in the browser but not in the terminal, check that you really used <code>curl.exe</code> .                                                                                                           |
| Linux   | Nothing special. <code>python3 -m json.tool history.json</code> makes a file easy to read.                                                                                                                                                                                  |

## 6 Optional but very helpful: a cancelled print

It helps most if your last five prints include one **finished** and one **cancelled** print. Then I can see whether the printer reports the real usage when a print is cancelled, or only the slicer's estimate. If there's no cancelled one: start a small print (e.g. a calibration cube), cancel it after 3–5 minutes and open request 3 again.

## 7 What I need back

- ☐ printer model and, if known, the firmware version or mod (e.g. "K1 Max, Helper Script")
- ☐ which address worked (with or without port)
- ☐ the answers to requests 1 to 3 as text or files, or the error message
- ☐ a short note on which print finished and which was cancelled

Please send everything here: **on the 3MF Discord, channel #feature-wünsche-requests, post "Printer connection – test results"**.

**Your data:** request 3 contains the file names of your last prints. If you don't want to share them, replace them with "File 1", "File 2" etc. before sending. I only need the numbers and fields. The answers, without file names, will be used as test data in the project.

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## 8 If something doesn't work

| WHAT HAPPENS                                     | WHAT YOU CAN DO                                                                                                                         |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Page doesn't load                                | Check the IP and that computer and printer are on the same network. Try the address with <code>:7125</code> . On macOS see section 5.   |
| You get the Mainsail/Fluidd page instead of text | This address doesn't forward to Moonraker. Try the same IP with <code>:7125</code> . Please report it anyway, it's an important result. |
| 401 Unauthorized                                 | A login is set up. Please send the message. The app doesn't support logins yet, and that's exactly what I want to know.                 |
| 404 Not Found                                    | Your version doesn't have this feature. Please send that too.                                                                           |
| Empty list in request 3                          | No stored prints yet. Do a short print (section 6).                                                                                     |

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## 9 What happens next?

With your answers I'll check whether the app works with your printer and extend the tests. Then comes round 2: a preview build of v0.14.0 for Linux, Windows and macOS, so you can try the printer connection directly in the app. There will be a separate guide for that.

For peace of mind, just like in the app later: the printer connection stays off until you switch it on. It only talks to home-network addresses you entered yourself, only reads, and never changes anything on the printer. There's no cloud and no account.

Thanks a lot!  
Andreas

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Sources: Moonraker documentation ([moonraker.readthedocs.io](https://moonraker.readthedocs.io)) · manufacturer information and community wikis (Creality Helper Script, Qidi, Elegoo). Ports may differ depending on the firmware version.