Formal requirements for printing on an OU printer

To print on a printer managed by a KIT organizational unit (OU) and operated via the SCC print server, a KIT user account of the form "ab1234" is required, which is usually held by every KIT employee.

KIT "**Guests and Partners**" (GuP) may also receive a user account "ab1234" with reduced, but **KIT-wide** GuP authorizations. Whether an OU can or wants to grant this GuP group print permissions for its local OU printers depends on its usage guidelines.

"Guests and partners" should ask the OU management to clarify whether they can obtain rights for the local OU printers or, alternatively, whether an OU-specific GuP group can be set up for local printing rights.

The new OU-GuP group must be applied for by the ITB of the OU at the SCC, Dept. AMA:
☞ scc.kit.edu/ueberuns/ama

The activation of the new group for the relevant OU printer(s) is then carried out at short notice via an e-mail request from the OU ITB to the Print & Plot server administration (✉ oedrucker@scc.kit.edu).

Whether an OE printer can be used from outside the KIT network must be tested in each case. In any case, a VPN connection is necessary:
☞ scc.kit.edu/vpn

Connecting the OU printer

If the conditions are fulfilled and the printer name is known, it can be mounted on the PC/Mac:

Directprint with Windows 8/10/11

1) Open "Run" [⊞+R] and complete the following input with [↵] or "OK":
   `\\scc-print-srv1.scc.kit.edu` ↵

2) Enter user account and password:
   `KIT\<Konto>` ↵ (e. g. `KIT\ab1234`)

⚠ *If the domain "KIT" is already displayed in the login window, enter the account only.*

3) In the new window, double-click or right-click ▷ "Connect" to select the desired printer.

Close window. The printer is now available in any application.

When logging off/restarting the PC, the connection to the printer as well as a previously established VPN connection is terminated.

To reconnect to the printer from outside the KIT network, a VPN connection must first be established again.

U. c. c., a connection to the printer must first be re-established with the following command:
`\\scc-print-srv1.scc.kit.edu` ↵

🛈 *Set command as shortcut on/in desktop/autostart folder.*

Directprint with Mac (OS X Leopard, Mountain Lion & newer)

1) Download the printer-specific PostScript Printer Description (PPD) file from the manufacturer's website to your Mac to mount the printer.

2) "" ▷ "System Preferences" ▷ "Printers & Scanners" ▷ "+"

◈ U. c. c. you have to customize the toolbar in the "Add" dialog: Right click on toolbar ▷ "Customize Toolbar": Drag the "Advanced" button onto the toolbar in "Add" dialog ▷ "Done"

3) In „Advanced" (toolbar) choose/enter:
   - Type: "Windows printer via spoolss"
   - Device "Another Device"
   - URL: Enter the following URL and replace "`<OU-Printername>`" with the share name of your OU printer.
     `smb://scc-print-srv1.scc.kit.edu/<OU-Printername>`
   - Name: *arbitrary – your preferred name*
   - Location: *arbitrary*
   - Use: "Other" ▷ *select saved PPD file* ▷ "Open" ▷ *Choose printer* ▷ "Add"

◈ U. c. c. activate *CUPS* in Mountain Lion. To do so, complete the following entry in *Terminal.app* with ↵ / Enter / Return:
   `cupsctl WebInterface=yes` ↵

User account and password are requested when sending the first print job.

ⓘ Hints & Tips

- Check printer presets in **new session**!

- Depending on the printer settings, **incorrect document page sizes** are not adjusted, but printed as sent. Affects mainly PowerPoint slides and US paper formats ("Letter"/"8 ½ × 11", "Legal" etc.).

- Always send the original **fonts*** of the document to the printer! Usually set here: "Print" ▹ *your printer* ▹ "Properties" ▹ "Advanced…" ▹ "TrueType Font": "**Download as Softfont**"

- ⚠ For some printers, disable one of the following option: "Screen Font Substitution" / "Replace TrueType fonts with printer fonts" / "Use Printer Font" / "Use Substitution Table".

- **Missing characters / Unprintable PDF:** Considering * (see above) create new PDF with *PDF24* or similar:

  ☛ scc.kit.edu/pp-pdfdrucker

  Alternative (lower quality!): Create new print file with: "Print" ▹ "Advanced": "**Print As Image**".

- If printer does not offer options like "**Multiple pages per sheet**", "**Booklet**": Create desired layout with *PDF24* or similar in new PDF.

- For **multiple copies**: First do a test print on target printer! Watch for…
  - o **PNG** images: color errors in some cases, e.g. KIT logo light green instead of turquoise.
  - o **JPG/JPEG** images that appear to be white/clean on the display show dirty clouds (JPG artifacts) around text and other high-contrast borders in printout.
  - o Convert **1-bit B/W** images to 8-bit gray levels before inserting them.
  - o Insert **images** with **max. 600 dpi**.
  - o **Calendar stitching (Muplex):** double-sided, reverse side 180° rotated

More tips
☛ scc.kit.edu/pp-faq

OU-Admin (ITB): Info/Contact

- 🌐 scc.kit.edu/oedrucker
- ✉ oedrucker@scc.kit.edu
- 📞 0721-608-48446, Hermann Wolf
- 📞 0721-608-46434, Harald Bauer

Contact

Karlsruhe Institute for Technology (KIT)
Scientific Computing Center (SCC)

Print & Plot
Zirkel 2, 76131 Karlsruhe

- 📞 0721 608-43344
- ✉ printundplot@scc.kit.edu
- 🌐 scc.kit.edu/printundplot

KIT
Karlsruher Institut für Technologie

04.7 OU Printers

Printing on Institute owned printers

PRINT und plot

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