Wireless network instructions

Printing using the wireless network—Linux

Note: This guide is for Linux OS wireless printing and has been tested on Ubuntu 12.04. The instructions will likely work for other Linux distributions.

Prerequisites

The only prerequisite for setting up printing is that you must have CUPS installed. Most Linux distributions come with CUPS pre-installed or have it in the official package repository. For Ubuntu, run the following command:

```
sudo apt-get install cups
```

Setting up static username printing

Use this setup if you want to enter a username every time you do Linux wireless printing.

Installing the printer

Point your browser to the local CUPS administration area via the URL: http://localhost:631/admin

Select "Add Printer" and enter your login details when asked for them (this is your local login)
Select "LPD/LPR Host or Printer" and continue.

Enter the following into the connection box (replace username with your UoA username):
lpd://username@icprnp02.uoa.auckland.ac.nz/caps-wireless
Enter a name for the printer such as UoA-CAPS-Printing (you may also enter a description and location if you want) then, click continue

Under "Make", select "Ricoh" then, click continue

Under "Model" select "Ricoh Aficio MP C7500 PS" (If there are multiple of the same option just select the first one)

Select "Add Printer"
Your computer is now set up for wireless printing requiring username login for every print job.
Setting up dynamic username printing

Use this setup if you don’t want to enter a username every time you do Linux wireless printing.

Installing the printer

Dynamic username printing is not much harder, but it does have a couple of extra prerequisites. You will need Python and wxPython installed. For Ubuntu, run the following command:

```
sudo apt-get install python python wxgtk2.8
```

**N.B.** The above message means that the OS already has a later version of the popup client installed by default, please move to the next step.

You will also need to ensure that with your cups installation you have the print driver for the "Ricoh Aficio MP C7500 PS" printer. To check in Ubuntu, run the following command:

```
lpinfo --make-and-model "Ricoh Aficio MP C7500 PS" -m
```

You should expect to see a line or two with the full paths of the print drivers. If you don’t see anything you need to find the correct print driver before you continue.
Next you will need to download the attached file (uoa-caps-linux.tar) and extract it anywhere you want on your computer. Once it's extracted open a terminal session and browse to the correct folder. Then run the following command:

    sudo python setup.py

The installer will automatically install and configure both the popup service and a new printer (under the name UoA-CAPS-Printing).

When installation is completed, follow the prompt to log out and log back in.

Your computer is now set up for wireless printing without requiring username login for every print job.

**Troubleshooting**

If you have previously printed successfully on the UoA wireless network but can no longer print, it may be because of printer upgrades. If this is the case, you will need to uninstall the printer then install the updated printer.

**Uninstalling the printer**

Open a new terminal session and run:

    sudo python /usr/local/bin/pharos-uninstall

Note: Sometimes this command will only uninstall the popup service and not the actual printer. If this happens, manually remove the printer as follows:

Open your local CUPS server (http://localhost:631/)

Open the printers section and select the printer

From the Administration dropdown, select “Delete Printer”

**Installing the updated printer**

You may be able to find the updated printer under the printer “Model” options. Refer to “Setting up static username printing” above.