



Article	Connecting Private Computers to the Network	Level	INTERMED
Symptom	Unable to browse the Internet or print to undergrad printers		
Cause	Restrictions placed on ALL non-Faculty' computers		
Resolution	Ensure the computer is 'known' by Faculty Computing		
Dated	Monday, July 14, 2008 12:45 PM		

SUMMARY

The Faculty of Arts, Humanities and Social Sciences (FAHSS) maintain a secure network environment; as part of this maintenance unless Faculty Computing have a record of a computer – that computer will not be granted any form of network access, such as Internet access. Note that the wireless and dial-in systems are not part of the FAHSS network!

It should be noted that the definition of a non-faculty computer is one that is either personally owned by staff or student; or is a faculty owned computer that does not have our current SOE (Standard Operating Environment) installed. Since the faculty has no control over the security of non-faculty computers (such as ensuring anti-virus software is kept up-to-date) these computers will be connected to the faculty network in such a way to ensure that they pose no threat to the stability and security of the network.

ASSUMPTIONS

- This document is provided 'as-is'; the Faculty Computing cannot provide any form of support for problems arising from changes you make as a result of steps contained within this document – the document was correct as of the time of writing; errors and omissions excepted.
- If a physical (cabled) connection is required, that your computer has been registered with Faculty Computing; if it hasn't please email Arts-Help to arrange for this to be done.
- Ongoing changes to the network environment may impact your computers ability to connect to the Faculty' network – please ensure you check the Faculty Computing FAQ website, regularly, for further information.
- The network settings changes below may impact on your current settings when using the computer at home or on another network; ensure that you fully understand the implications of making these changes and that you are able to restore any current settings.

RESOLUTION

This document contains the necessary instructions to connect to the Faculty' network and, if required, print to the undergrad lab printers for the following operating systems:

- Windows XP (SP2 & SP3)
- Macintosh OS X 10.4.x

WINDOWS XP (SP2 & SP3) DESKTOP OR LAPTOP

Configuring computer to connect to Faculty' network

1. Click **Start** and select **Control Panel**.
2. Double-click **Network and Internet Connections**, if displayed.
3. Double-click **Network Connections**.

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4. Right-click **Local Area Connection** and choose **Properties**.
The Local Area Connections Properties window is displayed.
 5. Double-click **Internet Protocol (TCP/IP)**.
The Internet Protocol (TCP/IP) Properties window is displayed.
 6. Ensure that **Obtain IP Address automatically** and **Obtain DNS server address automatically** are selected.
 7. Click the **Advanced** button.
The Advanced TCP/IP settings window is displayed.
 8. Click on the **DNS** tab, and ensure that there are no entries under **DNS server addresses, in order of use**; also ensure **Append primary and connection specific DNS suffixes** is selected.
 9. Click on the **WINS** tab, and ensure that there are no entries under the **WINS addresses, in order of use** section.
 10. Click **OK**.
The Internet Protocol (TCP/IP) Properties window is re-displayed.
 11. Click **OK**.
The Local Area Connections Properties window is re-displayed.
 12. Click **OK**.
The Network Connections window is re-displayed.

Printing to the printers in the undergrad computer labs from your Windows computer

Before proceeding, ensure that you have successfully connected to the Faculty' network and if not already installed that the driver for the appropriate printer have been installed.

1. Click **Start** and select **Control Panel**.
2. Double-click **Printers and Other Hardware**, if displayed.
3. Double-click **Printers and Faxes**.
4. Click on the **Add a printer** link.
The Add Printer Wizard window will be displayed.
5. Click **Next**.
6. Ensure that **Local printer attached to this computer** is selected and uncheck **Automatically detect and install my Plug and Play printer** (if displayed).
7. Click **Next**.
8. Select **Create a Port**, and choose Standard TCP/IP Port from the drop down list.
9. Click **Next**.
The Add Standard TCP/IP Printer Port Wizard window will be displayed.
10. Click **Next**.
11. Enter the name snap-print.arts.uwa.edu.au in the **Printer Name or IP Address** field.
12. Click **Next**.
There will then be a short delay while your computer attempts to connect to that printer; the 'Add Standard TCP/IP Printer Port Wizard' will then be displayed.
13. Select the **Custom** option and click the **Settings** button.

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14. Ensure the following settings are defined (any other settings can be left as-is):
- **Port Name:** snap-print.arts.uwa.edu.au
 - **Printer Name or IP Address:** snap-print.arts.uwa.edu.au
 - **Protocol:** LPR
 - **Queue Name:** snap-arts154
[if you wish to use Arts room 1.54]
snap-socs149
[if you wish to use SocSci room 1.49]
 - **LPR Byte Counting Enabled:** checked
15. Click **OK**.
16. Click **Next**; then click **Finish**.
You will then be presented with the window to select the make and model of the printer.
17. If you wish to use Arts building, room 1.54 then select the following:
- **Manufacturer:** Kyocera
 - **Printers:** Kyocera FS-3900DN KX
- OR –
- If you wish to use Social Sciences building, room 1.49 then select the following:
- **Manufacturer:** Kyocera Mita
 - **Printers:** Kyocera FS-3800 (KPDL-2)
- and then click **Next**.
- Note that at the time of writing these printer models are correct; however you should check to ensure these printer models remain unchanged prior to setting them up.*
18. Enter appropriate **Printer Name**.
You should ensure that the printer name reflects the room in which that printer is located; so enter UWA Arts 1.54 SNAP Printer or UWA Social Sciences 1.49 SNAP Printer.
19. Select whether you wish this printer to be the default printer or not; then click **Next**.
20. Ensure that Do not share this printer is selected; then click **Next**.
IMPORTANT: *You should ensure that no undergrad printer is EVER shared to other users!*
21. Ensure that you select **No** to the **Do you want to print a test page?** prompt; then click **Next**.
You will then be presented with a summary of the printer you are about to add.
22. Click **Finish** to add the printer.
23. You now need to ensure the printer is correctly configured; so right-click on the printer you have just added and select **Properties**.
24. Select the **Device Settings** tab and ensure the following properties are set as appropriate for the relevant printer:
- UWA Arts 1.54 SNAP Printer:
 - Paper feeder (cassette 1):** checked
 - Paper feeder (cassette 2):** checked
 - RAM disk:** un-checked
 - Memory:** 576 MB

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- UWA Social Sciences 1.49 SNAP Printer:
PF-60 Paper Feeders: One
Duplex Unit: Installed
Memory: >= 56MB Upgrade

25. Click **OK**.

You should now be able to print to the relevant undergrad printer; at which point you will then need to go to the appropriate release station and 'release' your print job.

Refer to http://www.fc.arts.uwa.edu.au/labhelp/printing/from_your_laptop for more details.

MACINTOSH (OS X 10.4.X) DESKTOP OR LAPTOP

If any option is greyed-out/unavailable you will need to Click the lock to make changes.

Configuring computer to connect to Faculty' network

1. From the **Apple** menu select **System Preferences**.
2. Click on the **Network** icon.
The Network window is displayed.
3. Select New Location from the **Location** drop-down menu.
4. Enter an appropriate name for this new location; then click **OK**.
5. Select Built-in Ethernet from the **Show** drop-down menu.
6. Ensure that the **TCP/IP** tab is selected and select Using DHCP from the **Configure IPv4** drop-down menu.
7. Click on the **Apply Now** button to accept, and implement, this new location.

Printing to the printers in the undergrad computer labs from your Macintosh computer

Before proceeding, ensure that you have successfully connected to the Faculty' network and if not already installed that the driver for the appropriate printer have been installed.

1. In the Finder select **Utilities** from the **Go** menu.
2. Double-click the **Printer Setup Utility**.
3. Click on the **Add** icon.
The Printer Browser window will be displayed.
4. Click on the **IP Printer** icon.
5. Ensure Line Printer Daemon – LPD is selected from the **Protocol** drop-down list.
6. Enter snap-print.arts.uwa.edu.au in the **Address** field.
7. Enter the appropriate **Queue** name:
 - snap-arts154 [if you wish to use Arts building, room 1.54]; or
 - snap-socs149 [if you wish to use SocSci building, room 1.49]
8. Enter the appropriate description in the **Name** field:
 - UWA Arts 1.54 SNAP Printer; or
 - UWA Social Sciences 1.49 SNAP Printer
9. Leave **Location** field blank.

10. From the **Print Using** drop-down menu, if you wish to use Arts building, room 1.54 then select the following:

- **Manufacturer:** Kyocera
- **Printers:** Kyocera FS-3900DN KPDL

– OR –

If you wish to use Social Sciences building, room 1.49 then select the following:

- **Manufacturer:** Kyocera Mita
- **Printers:** Kyocera FS-3800 (KPDL-2)

11. Click **Add**.

12. When prompted ensure the following properties are set:

- UWA Arts 1.54 SNAP Printer:
 - Optional Feeder:** Multi Purpose Feeder
 - Paper Feeders:** One
 - Optional Disk:** Not Installed
 - Memory:** 512MB Upgrade
- UWA Social Sciences 1.49 SNAP Printer:
 - Optional Feeder:** Multi Purpose Feeder
 - Paper Feeders:** One
 - Duplex Unit:** checked
 - Optional Disk:** RAM Disk
 - Memory:** 128MB Upgrade

13. Click **Continue** to complete the setup of the printer.

You should now be able to print to the relevant undergrad printer; at which point you will then need to go to the appropriate release station and ‘release’ your print job.

Refer to http://www.fc.arts.uwa.edu.au/labhelp/printing/from_your_laptop for more details.

RELATED INFORMATION

- <http://www.fc.arts.uwa.edu.au/labhelp/faq>
- Setup Consultants: <http://www.ucs.uwa.edu.au/web/staff/access/home/dialin/consultants>
- http://www.fc.arts.uwa.edu.au/labhelp/printing/from_your_laptop