RESIDENTIAL NETWORK USE POLICY
The Residential Network is a shared, finite resource installed by the College to promote scholarship and learning for all students. Accidental or intentional disruption of the Residential Network will deprive others of access to this Computing Resource. Persons attaching computers to the College's Residence Hall Network must comply with all other portions of this Policy. Additionally, the administrators of the Residential Network have the following specific policies:

Responsibility: Users are responsible for all traffic originating from their computer, regardless of whether they generated it or realize that they have violated any specific policies. In most cases, unintentional violations will result in a temporary loss of network access pending the resolution of the problem.

Network Addresses: Network addresses on the residential network are assigned by the residential network DHCP server. All Machines connected to the residential network must be configured to use DHCP to obtain their IP network address. Static addresses are not allowed. Any Machine found with an address not assigned by the residential network DHCP server will be disconnected. ResNet subscribers may not register a domain name or alias with an outside provider that points to a Machine on the Residential Network.

Routers and Servers: No routers, servers or wireless access points are permitted to be attached to the SMC residential network. Any devices that provide such services will be immediately disconnected from the campus network. Ethernet hubs, which allow multiple devices to be connected to a single network jack, are not routers and are allowed. Most computer operating systems do not provide routing functionality and are by default safe to attach to the network. Some operating systems such as Windows NT, Windows 2000, as well as most Unix and Linux implementations have the ability to provide routing functionality. If a User uses one of these operating systems, the User must make sure that all routing functionality is disabled. These operating systems also frequently provide server functionality by default. Users must make sure that all server services are disabled before attaching such a computer to the residential network. Routing and some network services, such as DHCP servers can disrupt the ability of others to use the residential network. If routers or servers are found to be operating, they will be immediately disconnected. All types of servers are prohibited, including but not limited to, web servers, FTP servers, IRC/chat servers, streaming audio/video servers, web cameras, DHCP servers, mail servers, anonymous remailers, and file servers. This includes Windows and MACOS personal file sharing services.

Network Traffic: Use of any type of "packet sniffing" or other similar program or device by Users is strictly prohibited. Users may run a packet sniffer in non-promiscuous mode (you may sniff your own Machine's packets only). It may not be feasible to provide unlimited connectivity for systems that are not strictly serving the College's missions. Because of this possibility, CaTS may limit network usage of residential systems. This may be implemented through bandwidth caps, restriction or blocking of services, or other means.

Security: Users are responsible for the security and integrity of their own systems. If a system has been "hacked" or otherwise compromised, CaTS shall disconnect it from the network to prevent it from interfering with the proper operation of the network. Reconnection shall only occur after a thorough test of the system has been done by CaTS to verify that the problem has been corrected.

Virus Protection: The Residential Network is a shared community resource, which means that a computer "virus," "worm" or similar malware can compromise the functioning of the entire network, and infect other computers on the network as well. Consequently, all computers attached to ResNet are required to have an approved "virus protection" program installed and running, with an active update service agreement that automatically downloads the most recent virus protection offered. Additionally, computers connected to ResNet must have all current "patches" provided by the OS manufacturer to fix potential security vulnerabilities in the operating system installed.

Abuse: Systems found to be running programs that disrupt network services or attack (including Denial of Service attacks) Computers on or outside the campus network will be disconnected immediately. Depending upon the situation, disciplinary action may be taken by the College.

Common Problems: Music files and Software Piracy (warez). The distribution of copyright protected materials is illegal and in direct violation of this Policy. Distribution of copyrighted software is similarly prohibited unless the copyright specifically allows redistribution, such as software covered under a "freeware" type license, such as the GNU general public license, or by express permission of the copyright holder.
INTRODUCTION

This document contains instructions for connecting your computer to the Residential Computing Network (ResNet). It is assumed that you have the correct hardware already installed, and that you are familiar with the operating system of your computer.

WHAT YOU MUST HAVE FIRST

To connect to the campus network, you will need the following

1) **PC or MAC computer with a network (Ethernet) card.**
2) **Cables.** Cat-5 or 6 twisted pair Ethernet cable ("RJ-45" connector). (The SMC bookstore stocks data cables that are between 15ft. and 50ft long.)

3) **Original system software and drivers.** In the event that certain software components need to be reinstalled, you must have your computer's original system software (and/or recovery) disks or CD’s, as well as any auxiliary software disks or CD’s for items such as CD-ROM drives or printers. CaTS cannot provide copies of licensed software—doing so violates our licensing agreements.

4) **Web browser.** Internet Explorer, Safari or Mozilla Firefox will allow you to gain access to the internet and browse the World Wide Web.

5) **Anti-virus Software.** All computers attached to ResNet are required to have virus protection software installed and running, with an active update service agreement that automatically downloads the most recent virus protection offered. Free Symantec anti-virus software is available to all residential students from the CaTS Service Desk in the St. Albert Hall Library. Additionally, computers connected to ResNet must have all current "patches" provided by the OS manufacturer to fix potential security vulnerabilities in the operating system installed and running.

STEP 1: THE ETHERNET NETWORK ADAPTER

If your computer is not "ethernet ready" with a port for a twisted pair ("RJ-45") connector, then you will need to install a network card. Laptop computers normally come with a network interface, but if yours does not, you will need to have a 10/100 Base-T PCMCIA card or similar external connector (make sure to mention to your salesperson the brand and model of computer you are connecting when purchasing a card). Make sure it is Plug-and-Play capable. You should follow the installation and configuration instructions that come with your network card. It is your responsibility to have the card installed correctly. Please reference the last page of this user’s guide for a list of vendors/consultants you can contact for assistance.
STEP 2: CONFIGURING YOUR COMPUTER FOR ETHERNET (if necessary)

In most cases you will just need to plug in your data (Ethernet) cable into the wall jack and the back of your computer. Turn on your computer, launch a browser (internet explore, or firefox) and you should be good to go. If not please try the following steps, which will help you to configure your computer for the internet.

A. WINDOWS 2000/XP – Check if set for dial-up

1. Click “Start” and select “Settings”, then “Control Panel”.
2. Find the “Internet Options” icon and double click. An Internet Properties dialog will appear.
3. Click on the “Connection” tab. If you have a modem connection under the “Dial-up settings…” window (such as to AOL or even SMCNet), you can either remove it, or select “Never dial a connection” to disable it.
   Note: Leaving “dial-up settings” may potentially create conflicts with your ResNet connections.
4. Click “OK” to return to the desktop.

STEP 3: CONFIGURING YOUR NETWORK SETTINGS

A. WINDOWS 2000/NT SYSTEM

The instructions in the following section covers the Windows 2000 system properties, the network settings, and network adapter settings. Read all of the instructions carefully before making any changes. Have your Windows 2000 CD-ROM or installation diskettes handy; some installation procedures may require them.

1. Double click on the My Computer icon on your desktop and open the “Control Panel” folder.
2. Find the “Network and Dial Up Connection” icon and double click.
3. Double-click on “Local Area Connections” and select “Properties”. A Local Area Connection Properties dialog box will appear.
4. On the “General” tab, under “Connect using” you should see the brand name and model number of your ethernet card. If your ethernet card is missing, you may need to install the appropriate drivers, which you will find on the diskette that came with your card.
5. Under “Components checked are used by this connection” you should see:
   - Client for Microsoft Networks
   - Internet Protocol (TCP/IP)

   If you see any items relating to AOL (particularly AOL adapter & protocol), you should select them and click “Remove”. Having AOL adapters and protocols installed here may interfere with your connection to ResNet.

6. Select “Internet Protocol (TCP/IP)”, click on “Properties”. An Internet Protocol (TCP/IP) Properties dialog box will appear. Make sure you have these two items checked:

7. Click “Ok”.

8. Click “Ok” in the Local Area Network Properties window.

9. Click “Close” in the Local Area Network Status window.

At this point, you may be prompted to restart your computer. You must restart for the changes to take effect.

B. WINDOWS XP

The instructions in the following section covers the Windows XP system properties, the network settings, and network adapter settings. Read all of the instructions carefully before making any changes. Have your Windows XP CD-ROM handy; some installation procedures may require them. In these instructions, we will talk about Windows XP Home Edition, and Windows XP Professional. These are two different operating systems, and it is important that you know which one you have. If you're not sure which version of Windows XP you have:

- Click “Start”, and select “Control Panel”.
- Select “Performance and Maintenance”.
- Select “System”
- Under the General tab, next to System, you should see Microsoft Windows XP, and beneath that, it should say either Professional or Home Edition

**Important Note:** Windows XP Home Edition does not have full networking capabilities and may not be a compatible server software on SMCNet. For this reason, CaTS does not recommend or support the use of XP Home Edition. If you are a current user of XP Home, CaTS recommends that you upgrade to Windows XP Professional. If you choose to use XP Home Edition, the support you receive from the CaTS Service Desk will be minimal.

1. From the “Start” menu, select “Control Panel”.

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2. Double-click on “Network Connections”(or “Network and Dial Up Connections” in XP Home Edition
3. Double-click on “Local Area Connection”. A Local Area Connection dialog box will appear.
4. Select “Properties”.
5. Under “Connect using”, you will see the brand name and model number of your ethernet card. If your ethernet card is missing, you may need to install the appropriate drivers, which you should find on the diskette or CD that came with your card.
6. Under “This connection uses the following items”, you should see:
   - Client for Microsoft Networks
   - Internet Protocol (TCP/IP)
If you see any items relating to AOL (particularly AOL adapter & protocol), you should select them and click “Remove”. Having AOL adapters and protocols installed here may interfere with your connection to ResNet.
7. Select “Internet Protocol (TCP/IP)”, and click on “Properties.” An Internet Protocol (TCP/IP) Properties dialog box will appear. Make sure you have these two items checked:
   - Obtain an IP address automatically
   - Obtain DNS server address automatically
8. Click “Ok”.
9. Click “Ok” in the Local Area Network (If you are using Windows XP Professional, you will also have to click “Close” in the Local Area Network Status window.)
10. Restart your computer.

C. MAC OS X 10.4 >

1. Go to the apple Menu and select “System Preferences”
2. Click on the “Network Icon”
3. Click on the “Ethernet Connection”
4. Click “Configure TCP/IP”
5. Confirm it’s using “DHCP”
6. Then click “Apply Now”
STEP 4: CONNECTING YOUR COMPUTER

The pictures below represent typical data and voice (phone) outlets installed in the residence halls. In some cases, there will be separate outlet boxes on your wall for the voice and data jacks. In others, both the voice and data jacks will be in the same box. The voice outlets will be marked with a label indicating the phone number assigned to that jack, and the data outlet will be marked with the same last four digits of the phone number, preceded by “D” or “DATA.” **You must connect your computer to the data jack with the same last four digits as the phone number you selected when you moved into the room.** This is the phone number you must report to your RA for your directory listing during the first week after move-in.
Please be sure you are using a **data cable** to connect your computer to the **data outlet**. The pictures below show typical phone and data cables.

![Phone: RJ-11 Cable (has 4-6 contacts) don't use](image1.png)  ![Data: RJ-45 Cable (has 8 contacts)](image2.png)

You will need an ethernet cable (shown above, right) long enough to reach from your computer to the wall jack in your room. The SMC Bookstore (x4373) sells cables in a variety of lengths from 15ft. to 50ft. long.

Insert one end of the cable into the port on the back of your computer. Make sure the cable's connector audibly "clicks" upon insertion. Plug the other end of the cable into the wall jack, also listening for a "click".

**You are NOT allowed to connect routers, wireless routers and/or wireless access points to the data outlets in your room.**

Once everything is plugged in and turned on, launch your browser.

Once connected to ResNet, you can check your SMC E-Mail by going to: [https://mail.stmarys-ca.edu](https://mail.stmarys-ca.edu). This will take you to the SMC web based E-Mail.

**TROUBLESHOOTING**

ResNet has been designed to be reliable and easy to use. However, in case you do run into problems, please refer to the steps below. You may need to refer to your ethernet network card manual, and have your OS disks and browser software available at this time.

**Step 1 - Common Remedies**

Most problems are simple and easy to solve. Try these quick solutions **FIRST** before calling the Service Desk.

**First Check:**
1. Make sure the data cable from the wall to your computer is securely connected. (You may have to take it out and replug it back in to confirm a secure connection. Make sure the cable’s connector audibly “clicks” upon insertion.). Check the Ethernet connector on your computer for the connection lamp. Most computers have two lamps on this connector, one that stays on when the computer is connected to the local switch and one that blinks when activity is occurring.
2. Have **everything** plugged in and powered up before you boot your computer.
3. REBOOT your computer.
Then Try:
Borrow a known working data cable to make sure the problem is not a defective cable.

Note: Each room should have at least one “live” data port for every resident. If the one closest to your computer is not working, look for another port. Make sure you have connected the cable to the data jack, not the telephone jack.

Step 2 – Check Your Network Connection
If you have completed the above checks and are still not connecting, try the following:

Windows 2000/XP
1. Click “Start” and select “Run”.
2. In the Run dialog box, type: cmd and click “OK”. This will bring up a black DOS-type window.
3. At the C:\> prompt, type: ipconfig
   Look for the IP Address; it should start with 149.137. If you do not get this IP Address, go back to STEP 4 on page 4; follow these steps thoroughly. After checking your configuration and you still do not get the specified IP number, report it to the Service Desk.
4. To exit out of the DOS window, type exit at the C:\> prompt.

MAC Users

OS X 10.4 >
1. Go to the apple Menu and select “System Preferences”.
2. Click on the “Network” Icon.
3. Click on Ethernet Connection.
4. Confirm the IP Address begins with:149.137
5. If you do not get the 149.137.xx.xx as your default IP address: Check your network cable connections to the wall and to your computer. Try another cable and Restart the computer.

If you still cannot connect after trying all of these troubleshooting tips, call the Service Desk @ x4266—we’ll do our best to get you online!