IPNS Visitor Laptop Networking

The IPNS Division offers Internet access for you to connect your laptop computer directly to a high-speed network connection. Every conference room and user room has a network connection wired to the Internet. Services are provided to automatically supply an IP network number to your properly configured computer.

To use the network connection your computer must be equipped with a network adapter (Ethernet card) and the software must be properly configured. Computers must have the TCP/IP network protocol installed and the TCP client package must be configured to obtain an IP address automatically from a server (DHCP).

Below are instructions for connecting your computer to the internet at the IPNS User Room or Conference Rooms:

PC: (Windows 95, 98, NT, ME, 2000, XP)
1. Connect the communications cable connecting your Ethernet card to the data cable.
2. Obtain a network address
   - Reboot
   - Click Start ... Run, in the Run dialog box.
   - If you have 95/98/ME type: winipcfg and click on: OK
   - Click the release button
   - Click the renew button
   - If you have NT/XP/2000, type: cmd to open a command window.
   - In the command window type ipconfig/release <return>, then type ipconfig/renew<return>

Macintosh:

MAC OS 9: To connect to the IPNS local area network (LAN), set up your TCP/IP control panel for the "Built-in Ethernet" port. You may use the Internet Setup Assistant, if preferred.

NOTE: This document does not apply to Mac OS 9 when used in the Classic environment of Mac OS X. The Classic environment uses Mac OS X network settings.

Follow these steps for manual configuration:

1. Open the TCP/IP control panel.
2. Choose Built-in Ethernet from the Connect Via pop-up menu.
3. From the Configure pop-up menu, choose DHCP.
4. Close the TCP/IP control panel.
5. Click Save when prompted.
6. Open a Web browser or other TCP/IP application to test your connection to the Internet.

Troubleshooting MAC Configuration:

Symptom
You are not able to connect to the Internet.

1. Check all cables and power supplies

Verify that all cables related to the modem are plugged in and firmly inserted.

If you have any hubs or routers in use, be sure to check all cables and power supplies. If you have more than one power supply available for a type of hub or router, try swapping the power supplies. A defective power supply may affect network traffic.

2. Check TCP/IP Control Panel settings
Open the TCP/IP control panel, and check to be sure that the settings are still correct. If you have an IP address that begins in 169 or 192, then you may not be successfully connecting to the network.

Mac OS X: To connect to the Internet via an Ethernet local area network (LAN), set up your network preferences for the "Built-in Ethernet" port.

Follow these steps for manual configuration:

1. Choose System Preferences from the Apple Menu.
2. Choose Network from the View menu.
3. Choose Built-in Ethernet from the Show pop-up menu (the "Configure" menu prior to Mac OS X 10.1).
4. Click the TCP/IP tab, if necessary.
5. Choose Using DHCP from the Configure pop-up menu.
6. Click Apply Now.
7. Open a Web browser or other TCP/IP application to test your connection to the Internet.

Troubleshooting:

Symptom
You are not able to connect to the Internet.

1. Check all cables and power supplies
Verify that all cables related to the modem are plugged in and firmly inserted.

If you have any hubs or routers in use, be sure to check all cables and power supplies. If you have more than one power supply available for a type of hub or router, try swapping the power supplies. A defective power supply may affect network traffic.

2. Check System Preferences settings

Use the System Preferences application to verify your TCP/IP settings and that Built-in Ethernet is your primary network interface. Follow these steps:

1. Choose System Preferences from the Apple menu.
2. Choose Network from the View menu.
3. Choose Active Network Ports from the Show pop-up menu ("Advanced" from the "Configure" pop-up menu prior to Mac OS X 10.1).
4. Be sure that the checkbox for "Built-in Ethernet" is selected.

5. Drag Built-in Ethernet to the top of the Port Configurations list to make it the preferred, or primary, network interface.
6. Choose Built-in Ethernet from the Show pop-up menu.
7. Click the TCP/IP tab. Follow your ISP's instructions for setting up this pane. For more information, see technical document 106715,
8. If you have made any changes, click Apply Now.

Limitations and Disclaimers

- No support is offered by Argonne for computer problems.

- E-mail services are NOT provided by Argonne to any outside user. You must configure your e-mail applications for use with your regular service provider. Argonne employees should use the Argonne VPN to connect to the Argonne network. Do not plug a modem into this network connection. Use only analog telephone phone jack in user room if your computer is furnished with a modem.

- Argonne cannot provide assistance to users in acquiring the needed software packages or installing them. No guarantee is provided that a computer will be able to make a successful connection, even if the above software configurations are installed, since many factors (including other software packages on the computer) may interfere with a connection.

- Argonne assumes no responsibility for any alterations or interference with a computer's configuration, operation or data files resulting from connection to the Argonne network.

- Argonne assumes no responsibility for damage, theft, or loss of any kind to a user's equipment, software, data files,. or other personal property brought into or used at Argonne facilities.