Connecting to "yalewireless" and to Ethernet (wired) Connections on Campus

How to Get Ready for Stage 2 Connectivity (Stage 1 connectivity must be done on-site once you arrive. See below.):

This type of connectivity is especially necessary for those with **desktop computers who will be living in the Divinity School apartments** or anyone else who may need a wired connection anywhere on Yale's campus.

- 1. Make sure that you have activated your NetID and have set up a password for it. If you have not done that yet, contact the Admissions Office.
- 2. Go here: <u>http://www.yale.edu/netreg/</u>.
- 3. Click on the big blue button that says, "Register Student Network Connection."

2) Yale University Network Registration - Mozilla Firefox	compared to the state of the st		
Elle Edit View History Bookmarks Iools Help			
C > C × 🛆 Y http://www.yale.edu/netreg/		☆ - Google	1
🔎 Most Visited 🛅 Getting Started 🛼 Latest Headlines			
Y Yale University Network Registration 🔶			
YaleInfo			
July 21, 2011			close window
YALE UNIVERSITY NETWORK REGISTRATION			
This web site allows you to register your computer(s) for use on Yale's network. Registration is done based on your network adapter. Each individual network and a structure there the port on the Yale campus.	ork adapter must be registered separately for it	to gain full access to Yale's network. After registration, a compute	er can be used with
Register Stud Network Conne	ent ction		
Faculty and staff should consult their local IT support providers for assistance with registering computers to access the campus network. Faculty in the ar	s & sciences that do not have a local support per	rson should send email to faculty.support@yale.edu to request as	ssistance.
This service is provided by Student Technology Collaborative, a division of ITS Client Resources. Please contact us if you have any questions or comments.			
Done			yale.edu Internet access
			meneration

4. You will then be asked to agree to the "Policies, procedures, and guidelines" of proper usage of Yale's networks. To continue, click "I Accept."



5. You will be given a prompt to type you NetID and password. Do that and click, "Login."

Yale University		Yale Network Registration
ITS INFORMATION TEC	HNOLOGY SERVICES	Serving the Yale community with technology
Net	work Registration User Lo	gin Help
In order to use and access Yale network resou This page is the first step in the registration pr your Yale email) and select Login to proceed.		for use. word (this is the same login and password used for
NetiD	NetID	
Password	•••••	
Cancel		
	Access to Yale's el	ITS Help Desk: 203-432-9000. 5 Science Park, 150 Munson St., New Haven, CT 06520, USA ectronic services if governed by <u>applicable laws and policies</u> . ontents Copyright© 2011, Yale University. All rights reserved. <u>Comments to the site editor</u> .

6. You will then be taken to a page that allows you to register new devices on the Yale network, view devices already registered under your NetID, and delete the devices you do not want.

	Device Registra	ition	ydsit <u>todout</u> <u>Help</u>
enter the MAC address. Or if	etect the MAC Address of the device you are c you wish to register a different device, enter th nust be filled in. Hover your mouse of the ques	ne MAC address of that device. Complete	
Hardware (MAC) Address	Detect		0
Description			0
Operating System	Select One	•	•
Register			
The following devices are curr device. To change device info	rently registered to your NetlD. If you wish to u rmation, delete the device and re-register it.	n-register (delete) a device, click the "De	elete" button for that
Device	Description	Operating System	
00-92-37-AD-83-29	Test Computer - Ethernet	Windows	Delete
For assistance, please cor	ntact the ITS Help Desk at 203-432-9000.		
	ITS Yal	ITS e University. 25 Science Park. 150 Munson St. I	<u> 8 Help Desk: 203-432-9000.</u> New Haven, CT 06520, USA

7. Here is the tricky part, so pay attention. If your computer is a Mac, skip to step 12 now. For all versions of Windows, this next step is the same, though the Windows interface looks different in each version. Click the "Start" button, go to "All Programs," then to "Accessories," then click "Command Prompt." The screenshots below are what it looks like in Windows XP, Windows Vista, and Windows 7, in that order.

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Windows XP



Windows Vista



Windows 7



8. After a second or two, depending on the speed of your computer, a black box with white text should pop up with a blinking cursor at the end of a string of characters. Type the following without the quotation marks: "ipconfig /all."



- 9. Hit the Enter key.
- 10. This next part may be confusing, so read points 10 and 11 of this document together, referring to the image under point 11. You should see a list of networking devices and the information about them. If your computer has wireless, then you will want both the wired and the wireless information. Look for the device labeled something like "Ethernet adapter Wireless Network Connection" or something like that. You may have to scroll up and down in the window to find this device, as there might be numerous devices listed with different names. Under the device with a name similar to "Ethernet adapter Wireless Network Connection," look for the "Physical Address," which consists of sixteen letters and numbers, divided into six sections of two each (e.g. 00-14-A4-22-6F-0A). This is the MAC or hardware address of your wireless network card. Write this information down somewhere.
 - a. You also want the hardware (MAC) address of your wired Ethernet network card. This should be named something like "Ethernet adapter Local Area Connection." Write down the hardware (MAC) address for this card, as well.
- 11. Thus, in the example given in the image below, the hardware (MAC/physical) addresses of the Wireless and Wired Ethernet cards are the following, respectively: 00-14-A4-22-6F-0A (wireless) and 00-12-3F-23-B2-8E

(wired). Now that you have written these down, skip to step 20. Steps 12-19 are for Macintosh users only.

Internet	C:\WINDOWS\system32\cmd.exe
Explorer	
<u>, </u>	Ethernet adapter Wireless Network Connection 2:
Adobe Reader 9	Connection-specific DNS Suffix . : its.yale.edu Description Dell Wireless 1370 WLAN Mini-PCI Car. d
Malwarebytes' Anti-Malware	Physical Address 00-14-A4-22-6F-0A Dhcp Enabled Yes Autoconfiguration Enabled : Yes IP Address
	Subnet Mask 255.255.255.0 Default Gateway 128.36.183.1 DHCP Server 130.132.1.5 DNS Servers 130.132.1.10 130.132.1.9 130.132.1.11
RealPlayer	Primary WINS Server : 130.132.21.71 Secondary WINS Server : 130.132.21.58
<i>(</i>]	Lease Obtained Thursday, July 22, 2010 4:22:51 PM Lease Expires Thursday, July 22, 2010 4:32:51 PM
Winamp	Ethernet adapter Local Area Connection:
	Media State Media disconnected Description Broadcom NetXtreme 57xx Gigabit Cont roller #3
Microsoft Office P	Physical Address
/indows Media Player	Ethernet adapter Network Connect Adapter:

12. For Mac Users only: This section will describe how Mac users can obtain the MAC addresses (Mac and MAC are two different terms—"Mac" Macintosh and MAC stands for Media Access Control) for their network cards. First, click on the Apple symbol in the top left corner of your screen, and click "System Preferences."

5

9

Ú	Grab	File	Edit	Capture	Window	Help
So	bout Thi oftware L pp Store	Jpdate				
Sy	/stem Pro	eferen	ces			ne i kastar i kastar i
	ock		R.	•		
R	ecent Ite	ms		•		+
Fo	orce Quit	t		CHO		
Re	eep estart 1ut Dowr	ı		18℃		
Lo	og Out y	dsadm	in	ûжQ		
		•				

13. Next, click the icon labeled "Network."

. NEXL, CHER THE	leon labelea						
000			System P	references			
	Show All					Q	
Personal							
Appearance	Desktop & Screen Saver	Dock	Exposé & Spaces	Language & Text	Security	Q Spotlight	
Hardware							
CDs & DVDs	Displays	Energy Saver	Keyboard	Mouse	Trackpad	Print & Fax	Sound
Internet &	Wireless						
MobileMe	Network	Bluetooth	Sharing				
System							
Accounts	Date & Time	Parental Controls	Software Update	Speech	Startup Disk	() Time Machine	Universal Access
Other							
Flip4Mac WMV	Symantec Auto-Protect	Symantec QuickMenu	Version Cue CS4				

14. Making sure that the Airport is still selected (it will be by default, unless you click somewhere else), click on the "Advanced" button at the bottom right corner of this window.



15. You will then see a list of Preferred Networks, a number of check boxes, and an identification number listed at the button under the label "Airport ID." In the screenshot below, this ID number has been highlighted. Right down this number as being the hardware (MAC) address for the Airport card on your MAC. Then click "Cancel."

AirPort TCP/IP DN	NS WINS 802.1	Proxies E	Ethernet
Preferred Networks	s:		
Network Name	S	curity	
YaleGuest	N	one	
yale wireless	N	one	
Disconnect whe Require administra			

Network Name Security YaleGuest None yale wireless None + Image networks into the order you prefer. Image Remember networks this computer has joined Disconnect when logging out Require administrator password to: Create computer-to-computer networks Image networks Turn AirPort on or off AirPort ID: 10:9a:dd:a2:94:0f	AirPort	TCP/IP	DNS	WINS	802.1X	Proxies	Ethernet
YaleGuest None yale wireless None + - Drag networks into the order you prefer. Image: The state of	Pref	erred Netw	vorks:				
yale wireless None + - Drag networks into the order you prefer. Image: The state of the state o	Net	work Name			Secu	urity	
 + - ▶ Drag networks into the order you prefer. ✓ Remember networks this computer has joined Disconnect when logging out Require administrator password to: Create computer-to-computer networks Change networks Turn AirPort on or off 	Yal	eGuest			Nor	ne	
 Remember networks this computer has joined Disconnect when logging out Require administrator password to: Create computer-to-computer networks Change networks Turn AirPort on or off 	yale	e wireless			Nor	ne	
		Disconnect uire admin	when lo istrator	gging ou passwor	it d to:	-	

16. Next select "Ethernet" or "Built-in Ethernet" from your options in the left panel. It should be either above or below "Airport."

000		Network	
Show All]		٩
	Location:	Automatic	*
 AirPort Connected Ethernet Not Connecte FireWire Not Connected 		Status: Configure IPv4: IP Address: Subnet Mask: Router: DNS Server: Search Domains:	Cable Unplugged Either the cable for Ethernet is not plugged in or the device at the other end is not responding. Using DHCP
+ - *-			Advanced ?
Click the lock to	prevent further	r changes.	Assist me Revert Apply

17. Once you have selected "Ethernet," click "Advanced" in the bottom right hand corner of the screen.

000	Network		
Show All		Q	
	Location: Automatic	*	
 AirPort Connected Ethernet Not Connected FireWire Not Connected 		Cable Unplugged Either the cable for Ethernet is not p in or the device at the other end is responding. Using DHCP	
+ – &-	Search Domains:	Advar Assist me Revert	Apply

18. You should then see a row of tabs to choose from. Click on the tab labeled "Ethernet," which is probably the last tab on the right.

L.	TCP/IP DNS WIN	NS 802.1X Proxies	Ethernet	
	Ethernet ID:	c8:2a:14:23:70:7f		
	Configure:	Automatically	\$	
	Speed:		A Y	
	Duplex:	half-duplex	A T	
	MTU:	Standard (1500)	A	

19. You should then see the identification number labeled "Ethernet ID." Write this number down as being the hardware (MAC) address for the Ethernet card on your MAC.

Ethernet ID:	c8:2a:14:23:70:7f	
Configure:	Automatically	+
Speed:		A Y
Duplex:	half-duplex	A Y
MTU:	Standard (1500)	A T

20. Now that you have written the hardware (MAC) addresses of your network cards, go back to the webpage that you logged into above in point 6 of this document. You will need to register each MAC address separately. In the text box next to the label "Hardware (MAC) Address," input one of the values that you wrote down above for the Wired (Ethernet) and Wireless (Airport) hardware (MAC) addresses (see images below). (Note: The Auto-Detect function will only detect the MAC address of one of your cards if you have both wired and wireless, and the one that it will detect will be the one connected to the Internet. In addition, it has been known to sometimes fail and return unusual and unexpected results. We recommend just following the procedures in this tutorial. Enter the MAC address for the wired/Ethernet card first.)

Device Registration

enter the MAC address. Or	if you wish to register a different d	vice you are currently using. If nothing evice, enter the MAC address of that d se of the question mark symbol for help	evice. Complete the remaining fields,	
Hardware (MAC) Address	Detect 00-12-3F-2	3-B2-8E	•	
Description			•	
Operating System	Select On	e	•	
Register				
The following devices are cu device. To change device in	irrently registered to your NetID. If formation, delete the device and r	you wish to un-register (delete) a devi e-register it.	ce, click the "Delete" button for that	
Device	Description	Ope	rating System	
00-92-37-AD-83-29	Test Computer - Ethernet	Wind	dows Delete	
For assistance, please contact the ITS Help Desk at 203-432-9000.				
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21. Next, type a helpful description in the box next to the label "Description." For example, it is usually helpful to list the brand of device (Dell, Lenovo, Acer, Apple, etc.), the type of device (laptop, netbook, desktop, iPad, Android smartphone), and which MAC address you are registering (wireless or Ethernet/wired). Also, choose the operating system that you are using (Windows, Mac, Linux, etc.) from the drop down box next to "Operating System."

Device Registration

enter the MAC address. Or if y	ou wish to register a	as of the device you are currently using. If nothin a different device, enter the MAC address of that er your mouse of the question mark symbol for h	device. Complete the remaining fields,
Hardware (MAC) Address	Detect	00-12-3F-23-B2-8E	•
Description		Dell Laptop - Ethernet	•
Operating System		Select One	•
Register		Windows Mac Linux	
The following devices are curr device. To change device info			vice, click the "Delete" button for that
Device	Description	0	perating System
00-92-37-AD-83-29	Test Computer -	- Ethernet W	indows Delete

For assistance, please contact the ITS Help Desk at 203-432-9000.

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22. Click "Register" once all fields are filled in.

		Device Registration		<u>Help</u>	
Click the "Detect" button to detect the MAC Address of the device you are currently using. If nothing happens, you'll have to manually enter the MAC address. Or if you wish to register a different device, enter the MAC address of that device. Complete the remaining fields, and select register. All fields must be filled in. Hover your mouse of the question mark symbol for help.					
Hardware (MAC) Address	Detect	00-12-3F-23-B2-8E		•	
Description		Dell Laptop - Ethernet		•	
Operating System		Windows	•	•	
Register					
The following devices are currently registered to your NetID. If you wish to un-register (delete) a device, click the "Delete" button for that device. To change device information, delete the device and re-register it.					
Device	Description		Operating System		
00-92-37-AD-83-29	Test Computer	Ethernet	Windows Del	lete	
For assistance, please contact the ITS Help Desk at 203-432-9000.					

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23. Once you click "Register," you should receive a message explaining that you have successfully registered that MAC address for Yale's networks. This registration is good for one academic year.

		Device Registration		<u>Help</u>		
Click the "Detect" button to detect the MAC Address of the device you are currently using. If nothing happens, you'll have to manually enter the MAC address. Or if you wish to register a different device, enter the MAC address of that device. Complete the remaining fields, and select register. All fields must be filled in. Hover your mouse of the question mark symbol for help.						
Hardware (MAC) Address	etect	00-12-3F-23-B2-87		•		
Description		Dell Laptop - Ethernet		•		
Operating System		Windows	•	?		
Register						
00-12-3F-23-B2-87 successfully registered						
The following devices are currently registered to your NetID. If you wish to un-register (delete) a device, click the "Delete" button for that device. To change device information, delete the device and re-register it.						
Device	Description		Operating System			
00-92-37-AD-83-29	Test Computer -	Ethernet	Windows	Delete		
00-12-3F-23-B2-87	Dell Laptop - Eth	nernet	Windows	Delete		

For assistance, please contact the ITS Help Desk at 203-432-9000.



- 24. Repeat this process again from step 20 to register your wireless/airport network card.
- 25. If you are on campus, wait about half an hour and restart your computer. You should then be able to connect your computer to an Ethernet jack or connect wirelessly through the wireless network named "yalewireless." You are now done with Stage 2 Network Connectivity!