

Getting Connected using Windows NT The topics in this help file will help you set up your Windows NT computer to get connected to EarthLink. Installing Windows NT 4.0 Dial-Up Networking Configuring Windows NT 4.0 Dial-Up Networking Reinstalling Remote Access Services Reinstalling TCP/IP

Installing Windows NT 4.0 Dial-Up Networking To install Windows NT 4.0 dial-up networking (DUN):

- 1. On your desktop, double-click **My Computer**.
- 2. Double-click Dial-up Networking.
 - If you receive a message stating The phonebook is empty, then click OK to add a new entry.
- If the Dial-up Networking window opens with the phonebook list and the option to dial, skip to Configuring Windows NT 4.0 Dial-Up Networking. Otherwise, click Install. Point to the path where your NT4.0 install files are located (for example, D:\i386) and click OK. Windows NT will now install the necessary files onto the hard drive.
- 3. Verify the directory and click the **Continue** button.

Add RAS Device	×
RAS Capable <u>D</u> evices:	OK
COM3 - Sportster 33600 Fax PC Plug ar 💌	Cancel
	<u>H</u> elp
	Install <u>M</u> odem
	Install X25 <u>P</u> ad

From the RAS Capable Devices drop-down list, select your modem then click OK button. 4.

Remote A	Access Setup		×
Port	Device	Туре	
COM3	Sportster 33600 Fax	PC Plug Modem (unimodem	Continue
			Cancel
			<u>N</u> etwork
			<u>H</u> elp
<u>A</u> dd. 5. Click th	<u>R</u> emove <u>Config</u> ention	gure Clone	
Configure	e Port Usage		×
Port: Device:	COM3 Sportster 33600 Fax PC Plug a	and Play Cancel	1
<u> </u>	sage al out only ceive calls only al out and Receive calls	<u>H</u> elp	j

- 6. Select Dial out only.
- 7. Click the **OK** button.

Re	emote Access	Setup		×
	<u>P</u> ort	Device	Туре	
	COM3	Sportster 3	33600 Fax PC Plug Modem (unimodem)	Continue
				Cancel
				<u>N</u> etwork
				<u> </u>
	<u>A</u> dd	<u>R</u> emove	<u>C</u> onfigure C <u>l</u> one	
8.	Click the Netw			
Ne	etwork Config			
	- Dial out Protoc	ols:	OK	
			Cancel	
	☑ <u>I</u> CP/IP ☑ <u>I</u> PX		Help	
9.	Uncheck NetB			
10. 11.	Check TCP/IP. Uncheck IPX.			
12.				
	emote Access			×
	Port	Device	Туре	Continue
	COM3	Sportster 3	33600 Fax PC Plug Modem (unimodem)	
				Cancel
				<u>N</u> etwork
				<u>H</u> elp
	<u>A</u> dd	<u>R</u> emove	Clone	

13. Click the Continue button.

Network 🛛 🗈 🗙	
Identification Services Protocols Adapters Bindings	
Network Services:	
 Computer Browser NetBIOS Interface RPC Configuration Server Workstation 	
Add Bemove Properties Update Description: Distributed protocol required for running the Computer Browser service.	
OK Cancel	
14. Click the Close button.]
Network Settings Change	3
You must shut down and restart your computer before the new se Do you want to restart your computer now?	ttings will take effect.
Yes No	

15. Click the Yes button to restart your computer.

The Add RAS Device window will appear.

If you see your modem listed in the RAS Capable Devices field, then click OK and proceed to the next step. ٠

×

• If you do not see a modem listed, then you will need to install a driver for your modem



Configuring Windows NT 4.0 Dial-Up Networking To configure Windows NT 4.0 dial-up networking, perform the following tasks to get your Windows NT 4.,0 computer setup to connect to EarthLink:

- Add a Phonebook Entry for EarthLink ٠
- Configure your Modem
- Configure your Dial-up Server
- Verify Script Settings ٠
- Verify Security Settings
- Connect to EarthLink



Adding a Phonebook Entry for EarthLink To add a phonebook entry for EarthLink:

- On your desktop, double-click My Computer.
- Deuble eliek Diel un Netwerking
- 2. Double-click Dial-up Networking.
- If you are reinstalling Dial-Up Networking, and you see a list of existing phone book entries, click New to create a new entry.
- By default, there are no entries in the phone book. If you see a message telling you that the phonebook is empty, click OK to open the New Phonebook Entry Wizard window.

New Phonebook Entry \	₩izard
	Dial-Up Networking connects you to remote networks using your modem, ISDN, or other WAN adapter. This wizard helps you create a phonebook entry that stores the settings needed to connect to a particular remote network.
T T	Name the new phonebook <u>e</u> ntry: MyDialUpServer
	I know all about phonebook entries and would rather edit the properties directly
	< <u>B</u> ack Finish Cancel

- 3. Check the box labeled I know all about phonebook entries... and click Finish.
- 4. In the New Phonebook Entry dialog, select the Basic tab.

New Phonebool	k Entry			? 🗙
Basic	Server	Script	Security	X.25
Entry name:	EarthLink			
Co <u>m</u> ment:				
Country code:	United Stat	tes of America	(1) •	
A <u>r</u> ea code:	999	•		
Phone <u>n</u> umber:	999-9999			<u>A</u> lternates
Dial using:	Standard 2	ephony dialing 8800 bps Moo ther port if bu	dem (COM1 -	<u>C</u> onfigure
			OK	Cancel

- 5. Entry name, enter EarthLink.
- 6. Enter the country code and area code of the number you are dialing, plus the phone number itself.
- 7. Check Use Telephony dialing properties.
- 8. Select your modem.

9. Use another port if busy should NOT be checked.

1.	Configuring your Modem configure your modem: Click the Configure button on the New Phor	tebook Entry dialog.
ľ	lodem Configuration	
	Standard 28800 bps Modern (COM1)	
	Initial speed (bps): 38400 🔹	
	Hardware Features	
	Enable hardware flow control	
	Enable modem <u>e</u> rror control	
	Enable modem compression	
	Disable modem speaker	
	OK Cancel	

- 2. Set the **Initial speed (BPS)** to 19,200 if you have a 14.4k modem or 38,400 if you have a 28.8k modem.
- 3. Make sure all three Hardware Features boxes are checked (if applicable) and that **Disable modem speaker** is not checked.
- 4. Click the **OK** button to return to the **New Phonebook Entry** dialog.

Configuring your Dial-Up Server To configure your dial-up server:

1. Select the Server tab on the New Phonebook Entry dialog.

New Phonebo	ok Entry				? ×
Basic	Server	Script	Security	X.25	1.
Dial-up <u>s</u> erve	er type:				
PPP: Windo	ows NT, Window	vs 95 Plus, Inter	net	•	
- Network pr	rotocols				
	IP	T <u>C</u> P/IP	Settings		
□ <u>I</u> PX/S	iPX compatible				
□ <u>N</u> etB	EUI				
	oftware compres				
🔲 🔲 Enable P	'PP <u>L</u> CP extensi	ons			
			OK	Cano	el 🛛

2. The Dial-up server type should be PPP: Windows NT, Windows 95 Plus, Internet.

3. For Network Protocols only TCP/IP should be checked.

4. Make sure Enable software compression is checked, but Enable PPP LCP extensions is NOT checked.

5. Click the TCP/IP settings button.

6. Select Server assigned IP address and Specify name server addresses.

7. In the Primary DNS text box, type 207.217.126.81

8. In the Secondary DNS text box, type 207.217.120.83

9. Leave the Primary WINS and Secondary WINS servers at 0.0.0.0.

10. Check both Use IP header compression and Use default gateway on remote network.

PPP TCP/IP Settings	? ×	
Server assigned IP a	ddress	
C Specify an I <u>P</u> addres	s s	
IP <u>a</u> ddress:	0. 0. 0. 0	
O Server assigned name	ne server addresses	
Specify name server	addresses	
Primary <u>D</u> NS:	207 . 217 . 126 .81	
Secondary D <u>N</u> S:	207 . 217 . 120 .83	
Primary <u>W</u> INS:	0. 0. 0. 0	
Secondary WINS:	0.0.0	
✓ Use IP header <u>compression</u>		
🔽 Use default gateway o	n remote network	
	OK Cancel	

 11. Click the OK button to return to the New Phonebook Entry dialog.

Ľ Verify Script Settings To verify script settings:

1. Select the Script tab on the New Phonebook Entry dialog.

New Phonebo	ok Entry			? ×
Basic	Server	Script	Security	X.25
O Run t	p a <u>t</u> erminal win his <u>s</u> cript:	dow		
(non		<u>E</u> dit script	<u>R</u> efre:	sh list
			<u>B</u> efore o	dialing
			OK	Cancel

2. Make sure None is selected.

Ľ Verify Security Settings To verify security settings:

1. Select the Security tab on the New Phonebook Entry dialog.

New Phonebo	ok Entry			?	x
Basic	Server	Script	Security	X.25	Ľ
Authentica	tion and encrypti	on policy			
Accep	t any authentica	tion including <u>c</u> l	ear text		
C Accep	t only <u>e</u> ncrypted	authentication			
C Accep	t only <u>M</u> icrosoft e	encrypted authe	entication		
	Require <u>d</u> ata end	aryption			
	∐se current user	name and pass	word		
Unsave	password				
			OK	Cancel	

Select Accept any authentication including clear text.
 Click OK to close the New Phonebook Entry dialog.

Connect to EarthLink

The Dial-up Networking dialog appears with the EarthLink entry you just created selected.

Solution States	? X
	Phonebook entry to dial: EarthLink
	Phone number pre <u>v</u> iew: 1 999 999-9999 Dialing fr <u>o</u> m: New Location
	<u>D</u> ial <u>C</u> lose
To connect to EarthLink: 1. Click the Dial button. The Connect to EarthLin	k dialog appears.
Connect to EarthLink	? X
Enter a user name and pa remote network domain.	ssword with access to the
User name: ELN/usern	ame
Password:	
Domain:	
✓ Save particular	assword
	OK Cancel

- 2. Enter ELN/ followed by your username in the User name field.
- 3. Enter your password.
- 4. Do not enter a **Domain** name.
- 5. If you are the only person using this computer, check **Save Password** so you won't have to retype your password each time you Connect to the Internet.
- 6. Click **OK** to dial EarthLink.

Once you are connected, a window will appear informing you that you have successfully connected to the Dial-up Server. Click **OK** to close this window.

You are now connected and may use any Internet software such as Internet Explorer (installed with Windows NT) to browse Web content.





- 1. Click the Start button, point to Settings, and choose Control Panel.
- 2. Double-click the **Network** icon.
- Select the Services tab. 3.

Network 🔹 🗙
Identification Services Protocols Adapters Bindings
Network Services:
 Computer Browser NetBIOS Interface Remote Access Service RPC Configuration Server Workstation
Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Enables users to work offsite as though connected directly to a network.
OK Cancel
 Select Remote Access Service. Click the Remove button.
Warning
This action will permanently remove the component from the system. If you wish to reinstall it, you will have to restart the system before doing su Do you still wish to continue?

Click the Yes button. Remote Access Service is no longer listed on the Services tab. 6.

<u>N</u>o

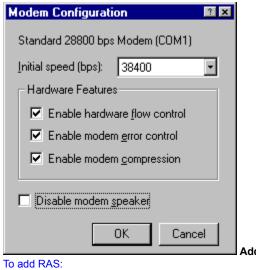
Yes

×

7. Click the **Close** button.

Modem Configuration	ŶX
Standard 28800 bps Modem (COM1)	
Initial speed (bps): 38400	•
Hardware Features	
Enable hardware flow control	
Enable modem error control	
Enable modern <u>c</u> ompression	
Disable modem speaker	
OK Canc	el

8. Click the Yes button to restart your computer.



Adding RAS

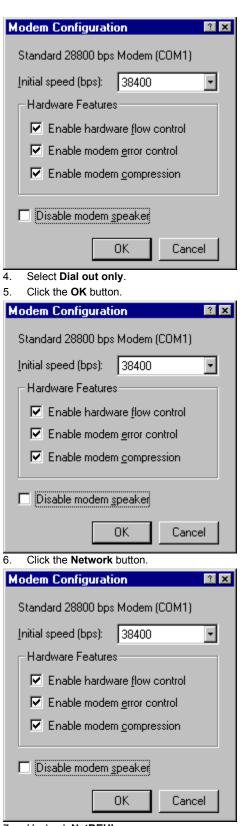
1. Click the Start button, point to Settings, and choose Control Panel.

Modem Configuration	
Standard 28800 bps Modem (COM1)	
Initial speed (bps): 38400	
Hardware Features	
Enable hardware <u>f</u> low control	
Enable modem error control	
Enable modem compression	
Disable modem speaker	

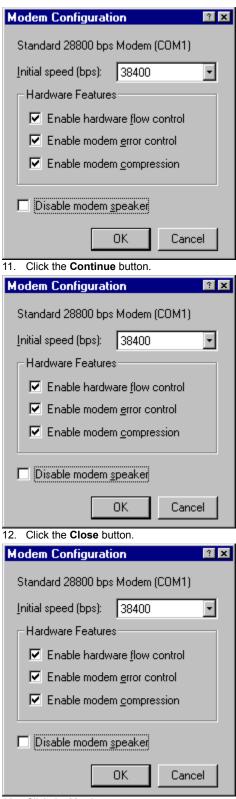
2. From the RAS Capable Devices drop-down list, select your modem then click the OK button.

Remote Acce	ess Setup			×
Port	Device		Туре	
COM3	Sportster 3360	0 Fax PC Plug.	. Modem (unimodem)	Continue
				Cancel
				<u>N</u> etwork
				<u>H</u> elp
<u>A</u> dd	<u>R</u> emove	Configure	Clone	

Click the Configure button. 3.



- 7. Uncheck NetBEUI.
- 8. Check TCP/IP.
- 9. Uncheck IPX.
- 10. Click the **OK** button.

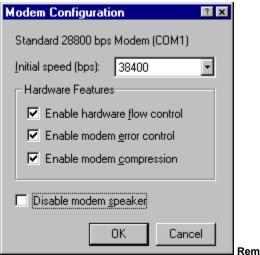


13. Click the Yes button to restart your computer.

Modem Configuration	? 🗙
Standard 28800 bps Modem (COM1)	
Initial speed (bps): 38400	•
Hardware Features	
Enable hardware flow control	
Enable modem error control	
Enable modem <u>c</u> ompression	
Disable modem speaker	
OK Canc	el Reinst
Domoving TCD/ID	

Reinstalling TCP/IP

Removing TCP/IP Adding TCP/IP



Removing TCP/IP

To remove TCP/IP:

- 1. Click the Start button, point to Settings, and choose Control Panel.
- 2. Double-click the Network icon.
- 3. Select the **Protocols** tab.

Network 3	×
Identification Services Protocols Adapters Bindings	
Network Protocols:	
TCP/IP Protocol	
Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Transport Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
OK Cancel	

- 4. Select TCP/IP.
- 5. Click the **Remove** button.

 7. Click the Close button. You will be warned that you have an invalid RAS configuration. Setup Message Remote Access is not configured with any network protocols. You have an invalid RAS configuration. You can configure RAS to support network protocols using the Network option in Control Panel after restarting the system. 		
If you wish to reinstall it, you will have to restart the system before doing so. Do you still wish to continue? Image: Imag	Warning	×
6. Click the Yes button. TCP/IP Protocol is no longer on the Protocols tab. 7. Click the Close button. You will be warned that you have an invalid RAS configuration. Setup Message Setup Message Remote Access is not configured with any network protocols. You have an invalid RAS configuration. You can configure RAS to support network protocols using the Network option in Control Panel after restarting the system. 8. Click the OK button. Modem Configuration Standard 28800 bps Modem (COM1) Initial speed (bps): 38400		
		Do you still wish to continue?
 7. Click the Close button. You will be warned that you have an invalid RAS configuration. Setup Message Remote Access is not configured with any network protocols. You have an invalid RAS configuration. You can configure RAS to support network protocols using the Network option in Control Panel after restarting the system. 8. Click the OK button. Modem Configuration Standard 28800 bps Modem (COM1) Initial speed (bps): 38400 		
You will be warned that you have an invalid RAS configuration. Setup Message Image: Configure RAS is not configured with any network protocols. You have an invalid RAS configuration. You can configure RAS to support network protocols using the Network option in Control Panel after restarting the system. Image: Configuration is the configuration is t	6. Click th	he Yes button. TCP/IP Protocol is no longer on the Protocols tab.
Setup Message Remote Access is not configured with any network protocols. You have an invalid RAS configuration. You can configure RAS to support network protocols using the Network option in Control Panel after restarting the system. Image: Click the OK button. Modem Configuration Standard 28800 bps Modem (COM1) Initial speed (bps): 38400	7. Click th	he Close button.
Remote Access is not configured with any network protocols. You have an invalid RAS configuration. You can configure RAS to support network protocols using the Network option in Control Panel after restarting the system. Image: Click the OK button. Image: Click the OK button. Image: Standard 28800 bps Modem (COM1) Initial speed (bps): Image: Standard Description	You wil	Il be warned that you have an invalid RAS configuration.
 configure BAS to support network protocols using the Network option in Control Panel after restarting the system. OK 8. Click the OK button. Modem Configuration Standard 28800 bps Modem (COM1)	Setup Me	essage
Modem Configuration Image: Configuration Standard 28800 bps Modem (COM1) Initial speed (bps): 38400	•	
Standard 28800 bps Modem (COM1) Initial speed (bps): 38400	8. Click th	ne OK button.
Enable hardware flow control		

Enable modem error control Enable modem compression

0K

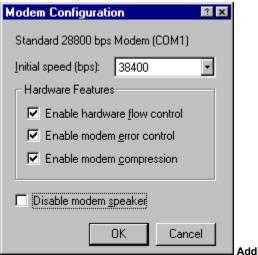
Click the Yes button to restart your computer.

Cancel

Disable modem speaker

9.

x



Adding TCP/IP

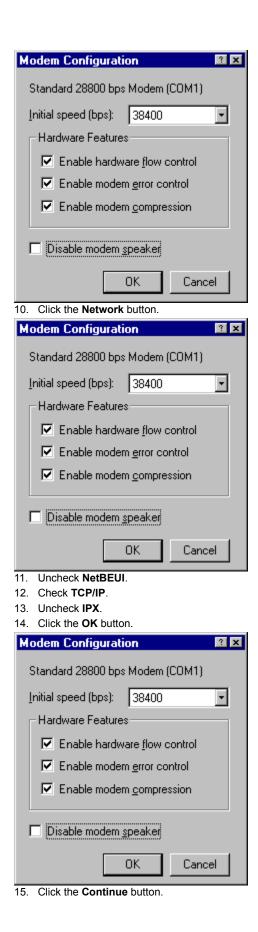
To add TCP/IP:

- 1. Click the Start button, point to Settings, and choose Control Panel.
- 2. Double-click the **Network** icon.
- 3. Select the **Protocols** tab.

Network	? X
Identification Services Protocols Adapters Bindings	
Network Protocols:	
Add Berrove Properties Update	
OK Cano	el

4. Click the Add button.

Select Network Protocol	
Click the Network Protocol that you want to install, then click you have an installation disk for this component, click Have	
<u>N</u> etwork Protocol:	
 NetBEUI Protocol NwLink IPX/SPX Compatible Transport Point To Point Tunneling Protocol Streams Environment TCP/IP Protocol 	
Have	e Disk
OK	Cancel
 From the list of Network Protocols, select TCP/IP Protocol. Click the OK button. 	
 If you are asked whether you wish to use DHCP, click the No butt 	on.
TCP/IP Setup	×
If there is a DHCP server on your network, TCP/IP can be not sure, ask your system administrator. Do you wish to us	configured to dynamically provide an IP address. If you are e DHCP?
<u>Y</u> es	10
You may be prompted for your Windows NT CD-ROM.	_
Windows NT Setup Setup needs to copy some Windows NT files.	Continue
Setup will look for the files in the location specified below. If you want Setup to look in a different place, type the new location. When the location is correct, click Continue.	Cancel
D:\\i386	
8. Verify the path, then click the Continue button.	
Setup Message	×
Setup has discovered that you have Remote Access Servi TCP/IP protocol?	ces installed. Do you want to configure RAS to support the
Car	ncel
9. If you are asked whether you would like to configure RAS to supp	port the TCP/IP protocol, click the OK button.



Network
Identification Services Protocols Adapters Bindings
Network Protocols:
TCP/IP Protocol
Add <u>Remove</u> <u>Properties</u> <u>Update</u> Description: Transport Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

16. Click the Close button.

17. Click the Yes button to restart your computer.

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