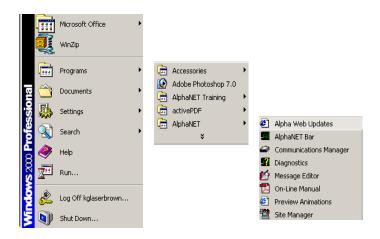
AlphaNET™ version 3.0

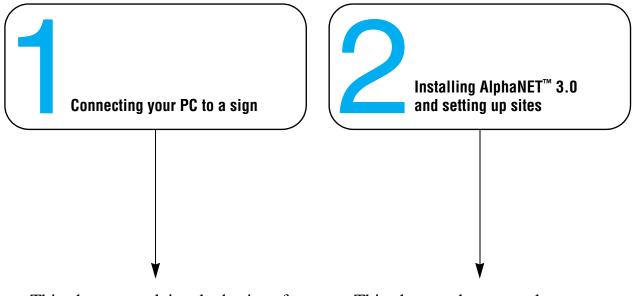
Compatible with Windows 95, 98, NT, ME, 2000, XP, Vista & Macintosh PowerPCs!



User Manual



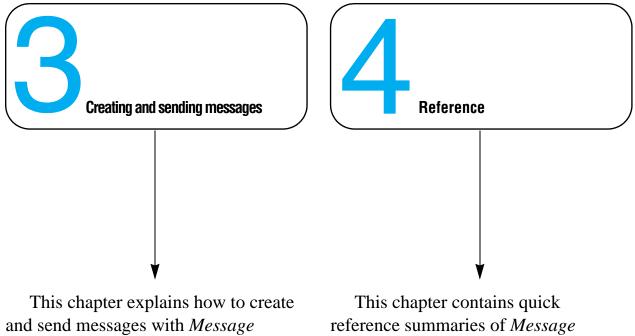
© 1996 - 2007 Adaptive Micro Systems, Inc. Form No. 97088081 rev.H Revision date: October 15, 2007



This chapter explains the basics of connecting your personal computer to a sign.

This chapter shows you how to install the AlphaNET[™] 3.0 software on your personal computer.

Also, a step-by-step tutorial explains the basics of creating sites using *Site Manager*.



Editor, as well as how to include graphics and animation in your messages.

This chapter contains quick reference summaries of *Message Editor*, *Site Manager*, *Communications Manager*, and *Diagnostics* in the AlphaNETTM 3.0 software. © Copyright 2007 Adaptive Micro Systems LLC. All rights reserved. Adaptive Micro Systems 7840 North 86th Street Milwaukee, WI 53224 USA 414-357-2020 414-357-2029 (fax) http://www.adaptivedisplays.com

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What's new in AlphaNET^m version 3.0 software

Password protection

Site Manager and Message Editor can now be password-protected. Select *Set Password* from the *Edit* drop-down menu:

	Set Password	×	1
Type a new password in the <i>New</i> <i>Password</i> line, then press <i>Tab.</i> Type the same password in the <i>Verify</i> box and click <i>OK.</i>	Old Password: New Password: Verify:	OK Cancel	When changing the password, you mu first type the password to be changed the <i>Old Password</i> line.

Menu customization

You can customize the options appearing in the drop-down menus in Message Editor by selecting *Edit>Customize*:

	Customize	×	
The type of sign selected determines the options available in your drop-down menus.	Show menu items for: All Signs (Show All) I con Style Save and reopen your messages to change the appearance of existing icons. © Pictures	OK Cancel	Select how you want the icons in your messages to appear,
	Tab Setting Spaces to insert: 8		 as pictures or as text. Type the number of spaces to insert for a tab setting.

Color selection

A new color selection box is available for the AlphaEclipseTM PurecolorTM 3600 series sign (full color, not monochrome). In Message Editor, see *Characters>Color>RGB*.

This color selection box also appears when you select *Characters>Shadow* in Message Editor to allow you to pick the shadow color of the characters.

Color ? ×
Basic colors:
Custom colors:
Define Custom Colors >>
OK Cancel

New modes

Two new modes are available with this version of AlphaNET[™], Clock mode and Explode mode. Clock mode is a wipe mode that updates information as if a second hand were sweeping around the sign. Explode mode is a roll mode that moves information from the center of the sign and outward in all four directions at once. Both modes are available in Message Editor under the *Modes* drop-down menu.

New line positions

Two new line positions are available in *Message Editor*, Left and Right, which left- or right-justify your message.



These line positions are only available with the AlphaEclipse[™] PureColor[™] 3600 series sign.

Tooltips

Tooltips are now available in all components of AlphaNET 3.0.



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PC hardware and software requirements

Minimum hardware and software requirements

- Windows® 95, 98, NT Workstation, ME, 2000, XP, or Vista software
- Processor requirements appropriate to selected operating system
- 16 MB RAM
- 10 MB of hard disk space
- CD drive
- RS232 (serial port) or LAN access
- Works with Alpha® displays

Other hardware requirements

Additional hardware, such as connectors and cabling, is also required and depends on the type of sign and connection you will be using.

Macintosh® hardware and software requirements

See "Appendix A — Macintosh® computer setup" on page 136 for details.

Related documentation

Part #	Document name	Description
97000112	Networking Alpha Signs	Explains the various types of sign networking options available.
97088061	Alpha® Sign Communications Protocol	Explains the native protocol used to send text and graphics to Alpha® signs.
97088099	How to Install AlphaNET™ 3.0 Software	Describes how to install the AlphaNET™ 3.0 software and use the Site Wizard.
1179610601	Quick Start: Geetting started with AlphaNET	Explains how to quickly connect your sign, install AlphaNET and send messages.

The following documentation may be useful with this manual:

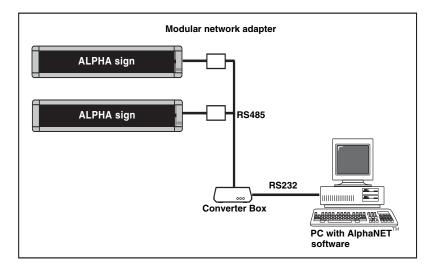
Types of sign connections

An overview of the methods of connecting signs is presented on the following pages.

For more detailed information, see the Networking Alpha Signs manual (pn 97000112).

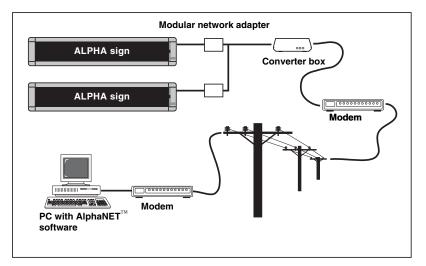
Cable network

In this type of network, one or more signs are connected with RS485 cabling to a PC running AlphaNETTM software:



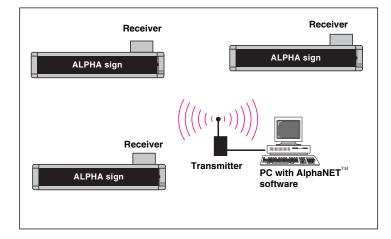
Modem network

In this configuration, modems are used to connect one or more signs to a PC running $AlphaNET^{TM}$ software:



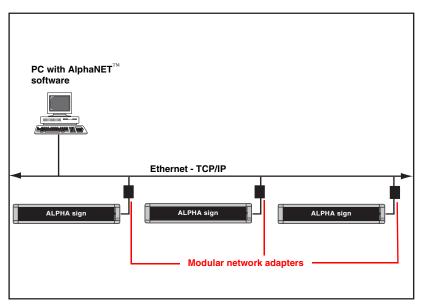
Wireless network

AlphaNETTM 3.0 software can send messages to Alpha® signs on wireless networks. For recommended wireless solutions contact Adaptive Micro Systems at 1-800-719-2838.



Local Area Network (LAN)

In this configuration, one or more signs are connected to an Ethernet network:





Installing AlphaNET[™] 3.0 software and setting up sites

How to install AlphaNET[™] 3.0 software

HINT

Before starting the software installation, check to see if there is a README file.

Look at this file before installing the software because it may contain late-breaking information.

About the Installation

You will be able to choose to install Adobe Acrobat Reader. Simply click the appropriate yes or no response when the prompt to do so appears.

You will also be able to choose whether you want to install the AlphaNET[™] computer based training. If so, it will appear in your *Start>Programs* menu.

A Site Wizard will be available to you to help you set up your first site. It will not appear until you have restarted your computer after the installation. Simply click the appropriate response when the prompt to do so appears. For more information on the Site Wizard or on installing AlphaNET[™] 3.0, see How to install AlphaNET[™] 3.0 software (pn 9708-8099).

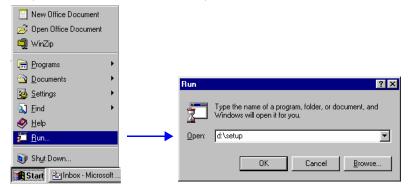
HINT

Right-click anywhere in this area of the AlphaNET[™] bar and select *Change Skin* to choose a different color for the bar.

- **1.** Start Microsoft Windows® software and be sure to have all other applications closed.
- **2.** Insert the AlphaNET[™] 3.0 software CD-ROM into your CD drive. The installation process will start automatically.

If installation does not start automatically, you can either:

Select *Start>Run*. Next, type *d:\setup* using the correct letter for your CD drive if not *d*. Finally, select *OK*.



- Or, using Windows® Explorer, double-click *Setup.exe* in your CD-ROM drive folder.
- **3.** Follow the instructions when the installation program prompts you for a response.
- **4.** When the installation program is complete, AlphaNETTM appears in your *Start* menu. If you select the AlphaNETTM bar, you will have access to *Message Editor*, *Site Manager*, and *Communications Manager* at the click of a button.
 - **Note:** If you chose the appropriate box in the installation process, the AlphaNETTM bar will appear automatically when you log into your PC.



How to change a sign's serial address

What is a serial address?

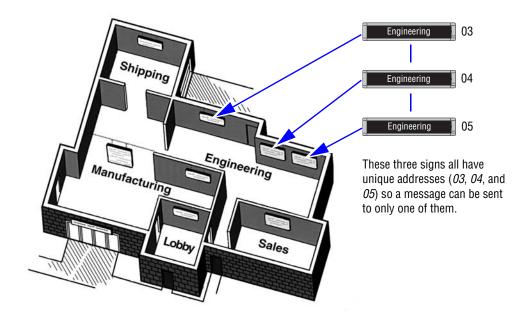
About Address 00

If more than one sign will be connected to a connection device (modem, wireless, or local connection), then give each sign a unique address, such as *01*, *02*, *03*, and so on.

Otherwise, sending a message to the sign with address *00* will also send the message to *all* other connected signs. An Alpha® sign has a feature which allows a unique number or serial address (address, for short) to be assigned to the sign. This address permits you to send messages to an individual sign on a network.

All Alpha® signs leave the factory with a default address of 00. However, another address—such as 01, 02, 03, and so on—can be given to a sign. Addresses for signs should be assigned using either a remote control or through the *Diagnostics* component of the AlphaNETTM software. Addresses should also be assigned before setting up connection devices, sites, and groups so that messages go to the correct signs.

For example, at the company used in the next sections's tutorial, several signs are connected to a network (below), and each of these signs is given a unique address so a message can be sent to a particular sign:



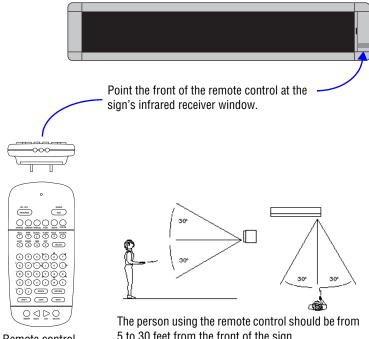
Changing a sign's serial address

2.

NOTE

For some signs, like the 9000 series, AlphaVision[™], AlphaPremiere^m, and AlphaEclipse[™] displays, internal DIP switches must be set to change the serial address.

- $T_{\rm O}$ change the address of a particular sign, first make sure that sign 1. is connected to a power supply and is functioning.
 - Point the front of the remote control at the sign's infrared receiver window as shown below:



Remote control (front and top views).

5 to 30 feet from the front of the sign.

- 3. $P_{\text{ress the}} (\overrightarrow{\ } _{\text{PROGRAM}}) \text{ button on the remote control.}$ PROG TEXT FILE A will appear on the sign.
- 4. Next, press the \bigcirc button until SET ADDRESS appears. васк
- > button until ADDRESS = 00 appears. (The sign 5. Press the may have an address other than 00.)
- 6. Set the sign's address by pressing any of the number keys. For example, to enter an address of 15, press the (1) button and then 5 button. the (
- 7. Finally, press the button two times to set the sign's new RUN address.

Address Note

Normally, a sign's address is a decimal number from 00 to 99.

However, if you need more addresses, a *hexadecimal* number from 00 to FF (0 to 255) can be used as an address. For example, hexadecimal 1F = decimal 31.

Step-by-step tutorial in setting up connection devices, sites, and groups

What are sites and groups?

Sites and groups are terms used by AlphaNETTM 3.0 software to describe how messages are sent to signs. You create sites and groups to make sending messages to multiple signs flexible and easy.

A site in AlphaNETTM 3.0 software is a collection of one or more signs, and a group is made up of one or more sites.

To help you better understand, a tutorial is presented below. In this tutorial, a complex example is created in a series of easy-to-understand steps.

Overview of the tutorial

In this tutorial, we'll set up sites and groups for an imaginary company pictured below. The table shows how signs are assigned in this company:

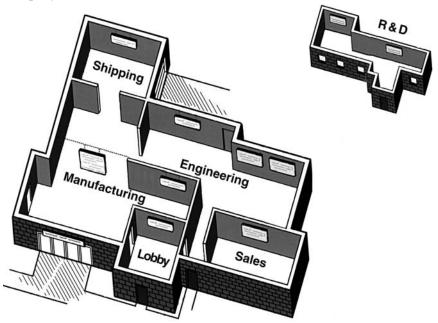
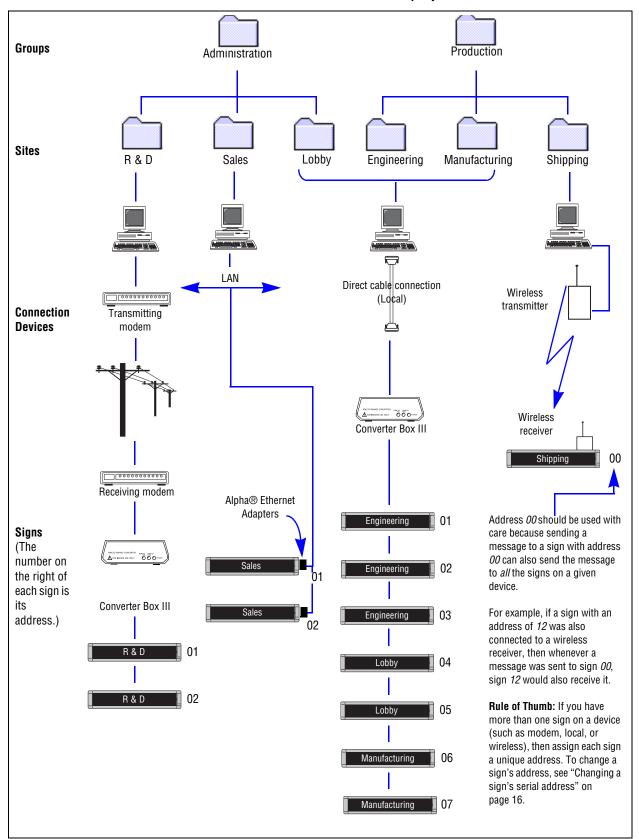


 Table 1: Overview of the tutorial company

Group	Site	# signs	¹ Connection Device
	Manufacturing	2	• local
Production	Shipping	1	• wireless
	Engineering	3	• local
	Sales	2	• LAN
Administration	Lobby	2	• local
	R & D	2	• modem
-	-	•	0 software by a direct cable (local) / a wireless transmitter.





Step 1: Creating or changing the connection devices

A connection device is a way to connect a sign to a PC that is running $AlphaNET^{TM}$ 3.0 software.

See chapter 1 for instructions on how to connect signs.

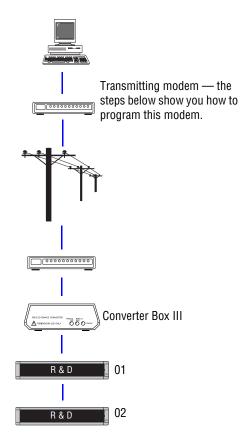
For more detailed information on networking signs, see the **Networking Alpha Signs** manual (pn 9700-0112).

The basic devices or types of networks are:

- **Cable (local) connection** This method uses cables/RS485 to connect signs to a network, and messages one or all sign are sent over this cabling. A local connection works best when all the signs are in one building.
- **Modem (remote) connection** Typically, this method is used when the signs you want to send messages to are not in the same building (or city) as your PC. In this type of connection, a modem is attached to your PC and another modem is attached to one or more signs at the other location. At the times you specify, messages are transmitted to the signs when the PC modem calls the sign's modem.
- Wireless connection (indoor signs) In this setup, a transmitter is attached to the PC running AlphaNETTM 3.0 software, and each sign is equipped with a wireless receiver. This allows text and graphics to be sent wirelessly to the signs. Note that AlphaEclipseTM signs use a pair of transceivers for 2-way communication. Setup in AlphaNETTM uses a "wired" connection device.
- Local Area Network (LAN) connection This option allows you to connect one or more signs to a LAN using Alpha® Ethernet Adapters. There is no maximum to the number of Alpha® Ethernet Adapters that can be used with AlphaNET[™] 3.0 software.

Setting up a modem (remote) connection

In our imaginary company, the following signs are connected by modem:



1. To create a modem connection device, open *Site Manager* by selecting either the *Site Manager* button from the AlphaNETTM bar or *Programs>AlphaNET>Site Manager* from the *Start* menu:



2. Select *Edit* > *Connection Device*:

_	Edit Messages View					
🗀 Site	Connection Device. Counter File Automode File	Alt+D Alt+C Alt+U	Message Name	Start Day / Time	Stop Day / Time	
3 E 7 3 L 3 N 3 F	Select All Deselect All Switch Pane	Ctrl+[Ctrl+] F6				
18 18	Preferences Set Password	Alt+P				
	lministration roduction					

3. When the *Connection Device Editor* window appears, select *Add*. Then select *Modem on Com 1* from the list, followed by *OK*. (If you have a modem on a different communications port, choose the modem on that port.)

	Connection Device Ed	Device Add Edit	
These default devices make your job easier because they are the most common methods of connecting signs to your PC.		Add Connection Device Select the connection device or connection devices to add: Ethernet Adapter Local Wired Com 1 Local Wired Com 2 Local Wired Com 3 Local Wired Com 4 Modem on Com 1 Modem on Com 2 Modem on Com 3 Modem on Com 4	OK Cancel

4. Once you select *OK*, the following window appears:

NOTE

To finish setting up a modem connection, you have to create a modem site using *Site Manager*.

To see an example of this, see "Creating the R & D site — a modem example" on page 29.

DIMECTION DEVICE EULOP	<u> </u>
Default Connection Device	Add
	Edit
Available Connection Devices: Modem on Com 1	. Remove
Modemonicom	Rename
	Make Default
	Custom
	ок

5. If you want to change any of the modem settings, make sure *Modem on Com 1* is highlighted as above and then select *Edit*. Use the following window to change the settings and then select *OK*:

A			
	Modem on Con	n 1 X	
_	General Settir		
В —	COM Port:	COM1 V Modem Pager Header:	
C —	Data Format:		
D	Baud Rate:	9600 TCP/IP	
	IP Port:	3001	
_	Modem Settin		
E Dialing Prefix		Packet Size: 150	
F	Modem Init SI	tring: Packet Delay: 2	
OK Cancel			
ltem	Name	Directions	
Α	Modem Check this box.		
В	COM Port	Select the port on your PC that connects to your modem.	
		Use <i>7E2</i> for 7 data bits, even parity, 2 stop bits. Use <i>8N1</i> for 8 data bits, no parity, 1 stop bit.	
C Data Format		(The <i>7E2</i> setting is compatible with most signs, but <i>8N1</i>	
		must be used with an AlphaEclipse™ 3500 sign.)	
	David Data	Alpha® signs can receive at baud rates between 1200 and	
D	Baud Rate	9600 baud. Only AlphaPremiere™ signs can use the 38400 baud setting.	
	If you must dial a number (such as 9) for your modem		
_	Dialing		
Ε	Dialing Prefix	reach an outside phone line, enter the number here. Leave blank with an AlphaEclipse [™] 3500 sign.	
E F	Ŭ	reach an outside phone line, enter the number here. Leave	

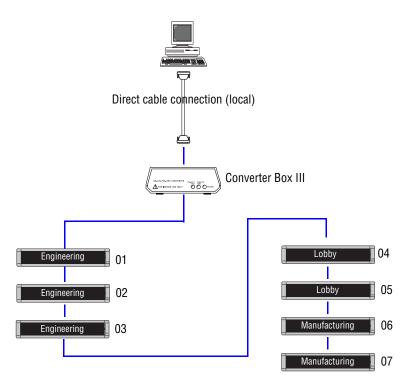
Table 3: Modem setup

BAUD RATE LIMITS

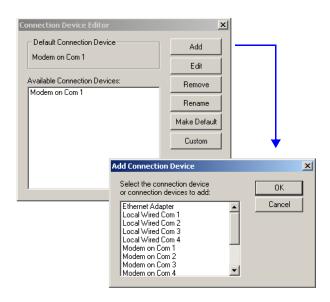
A Converter Box III with a serial number greater than AF00004525 (for example, AF00004526, AF00004527, and so on) has a minimum baud rate of 2400. Baud rates of 300 or 1200 will not be accepted, even though these rates are shown in *Connection Device Editor*.

Setting up a cable (local) connection

In our imaginary company, the following signs are connected by a local connection:



6. Continuing from the previous step, select *Add* from the *Connection Device Editor* window. Then select *Local Wired Com 2* from the list, followed by *OK*:



7. Once you select *OK*, the following window appears:

NOTE

To finish setting up a local connection, you have to create a local site using Site Manager.

To see an example of this, see "Creating the Lobby, Engineering, and Manufacturing sites — a wired example" on page 36.

Connection Device Editor	×
Default Connection Device	Add
	Edit
Available Connection Devices:	Remove
Modem on Com 1	Rename
	Make Default
	Custom
	OK

8. If you want to change any of the local settings, make sure *Local* Wired Com 2 is highlighted as above and then select Edit. Use the following window to change the settings and then select OK:

Local Wired Com 2 × General Settings Wireless Settings A Pager Header Modem COM Port: COM2 -В Data Format: 7E2 Wireless Pager Trailer C TCP/IP 9600 Baud Bate: IP Port Modem Settinas Dialing Prefix: Packet Size Modem Init String: Packet Delay ΟК Cancel Directions Item Name A COM Port Select the port on your PC that is cabled to your sign(s). Use 7E2 for 7 data bits, even parity, 2 stop bits. Use *8N1* for 8 data bits, no parity, 1 stop bit. В Data Format (The 7E2 setting is compatible with most signs, but 8N1 must be used with an AlphaEclipse[™] 3500 Series A sign.) Alpha® signs can receive at baud rates between 1200 and C Baud Rate 9600 baud. Only AlphaPremiere[™] and AlphaEclipse[™] signs can use the 38400 baud setting.

Table 4: Local setup

BAUD RATE LIMIT

A Converter Box III with a serial number greater than AF00004525 (for example, AF00004526, AF00004527, and so on) has a minimum baud rate of 2400. Baud rates of 300 or 1200 will not be accepted, even though these rates are shown in Connection Device Editor.

Setting up a wireless transmitter connection

About Address 00

If you have multiple signs networked together, it's a good idea to give each sign a unique address, like *01*, *02*, *03*, and so on. This allows you to send messages to individual signs.

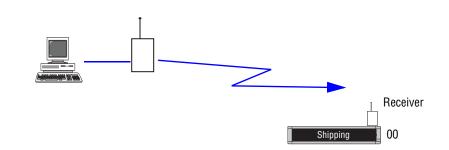
However, when you send a message to serial address 00, the message is broadcast to *all* signs on your network, even if each sign has a unique serial address.

To change a sign's address, see "Changing a sign's serial address" on page 16.

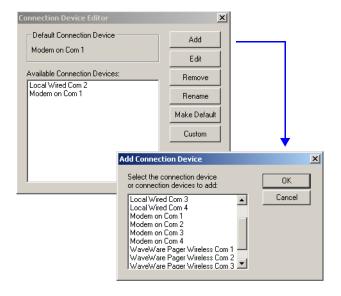
NOTE

Why can we choose *Wireless on COM1* when we already set up a *Modem on COM1*?

Site Manager assumes that you might have an AB switch attached to both a modem and a wireless transmitter. Or perhaps you unplug one device and plug in the other based on your needs. In our imaginary company, there is just one sign that uses a wireless connection. In this example, messages are sent to the sign using a wireless transmitter which is attached to a PC:



9. Continuing from the previous step, select *Add* from the *Connection Device Editor* window. Select *WaveWare Pager Wireless Com 1* from the list, followed by *OK*:



10. Once you select *OK*, the following window appears:

Modem on Com 1 Available Connection Devices: Local Wired Com 2 Modem on Com 1 WaveWare Pager Wireless Com 1	Add Edit emove
Available Connection Devices: Local Wired Com 2 Modern on Com 1 WaveWare Pager Wireless Com 1	
Local Wired Com 2 Modem on Com 1 WaveWare Pager Wireless Com 1	move
Modem on Com 1 WaveWare Pager Wireless Com 1	
-	ename
	e Default
Cus	ustom

NOTE

To finish establishing a wireless connection, you have to create a wireless site using *Site Manager*.

To see an example of this, see "Creating the Shipping site — a wireless example" on page 40. **11.** If you want to change any of the wireless settings, make sure *Waveware Pager Wireless Com 1* is highlighted as above and then select *Edit*. Use the following window to change the settings and then select *OK*.

A —				
	WaveWare Pag	er Wireless Com 1		
	General Settin	gs		
В —	COM Port:	COM1 V Modern Pager Header:		
C	Data Format:	7E2 Vireless		
л	Baud Rate:	9600 C TCP/IP \003\004		
IP Port:		3001		
	IP Port.	3001		
	Modem Setting			
	Dialing Prefix:			
	Modem Init String: Packet Delay: 2			
	DK Cancel			
ltem	Name	Directions		
	Modem Do not check for a wireless connection.			
A	Wireless Check <i>Wireless</i> if you are sending messages to signs using a transmitter attached to your PC.			
В	COM Port	Select the port on your PC that connects to your modem or transmitter.		
C	Data Format	Use <i>7E2</i> for 7 data bits, even parity, 2 stop bits. Use <i>8N1</i> for 8 data bits, no parity, 1 stop bit. (The <i>7E2</i> setting is compatible with most signs.)		
D	Baud Rate	Alpha® signs can receive at baud rates between 1200 and 9600 baud. Only AlphaPremiere™ signs can use the 38400 baud setting.		
Е	Pager Header			
F	Pager Trailer	Use these for your specific transmitter.		
G	Packet Size	Consult your transmitter documentation for details.		
Н	Packet Delay			
t	- unity Bondy			

Table 5: Wireless setup

BAUD RATE LIMIT

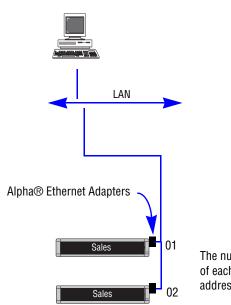
A Converter Box III with a serial number greater than AF00004525 (for example, AF00004526, AF00004527, and so on.) has a minimum baud rate of 2400. Baud rates of 300 or 1200 will not be accepted, even though these rates are shown in *Connection Device Editor*.

Setting up a Local Area Network (LAN) connection

NOTE

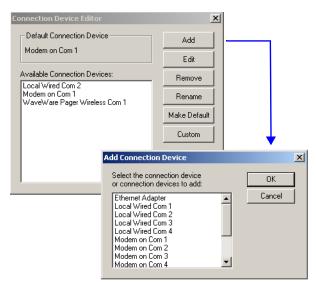
For more detailed information, see the **Networking Alpha Signs** manual (pn 97000112).

In our imaginary company, there are two signs that use a LAN connection. In this example, messages are sent to these signs using an Alpha® Ethernet Adapter, which is connected to a LAN:



The number to the right of each sign is its serial address.

12. Continuing from the previous step, select *Add* from the *Connection Device Editor* window. Then select *Ethernet Adapter* from the list, followed by *OK*:



13. Once you select *OK*, the following window appears:

NOTE

To finish setting up an Alpha® Ethernet Adapter connection, create a site using Site Manager.

To see an example of this, see "Creating the Sales site — a LAN example" on page 33.

Connection Device Editor	×
Default Connection Device	Add
	Edit
Available Connection Devices:	Remove
Ethernet Adapter Local Wired Com 2 Modem on Com 1	Rename
WaveWare Pager Wireless Com 1	Make Default
	Custom
	OK

14. If you want to change any of the Alpha® Ethernet Adapter settings, make sure *Ethernet Adapter* is highlighted as above and then select *Edit*. Use the following window to change the settings, and then select *OK*:

Table 6: Alpha® Ethernet Adapter setup

	Ethernet A	idapter 🔀		
A —		Settings wt. COM1 V Modem mat. 7E2 V eless Pager Header: Pager Trailer:		
В —	Dialing F	3001 Settings Prefix: Init String: Packet Delay: 2		
		OK Cancel		
ltem	Name	Directions		
Α	TCP/IP	This must be checked.		
В	IP Port	The default setting is 3001 for Alpha® Ethernet Adapters.		

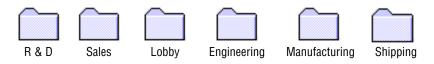
15. Finally, choose one of the devices as a default and then select *Make Default*. Select *Yes* at the prompt. Then, since we are finished adding devices in this example, select *OK*.



Step 2: Creating or changing the sites

Before creating the sites, there must be a device for each site. Since we did this is step 1, we can continue.

These are the sites we have to make for our imaginary company. Notice that many of them are just departments within the company. Sites/ signs typically are named by location:

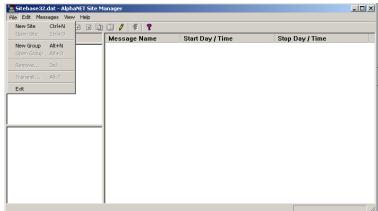


Creating the R & D site — a modem example

- **1.** There are two signs in the R & D site (see "Schematic of the tutorial company" on page 18). One of these signs must be given an address of *01* and the other sign an address of *02* (see "How to change a sign's serial address" on page 15).
- 2. To create the R & D site, open *Site Manager* if it is not already opened:



3. Select *File>New Site*:



4. After selecting *New Site*, the *Site Editor* window appears:

	Site Editor	×				
	Site Info Sign Info	Group Info Advanced				
Α_	Site Descri					
	Site Name:	B				
D	Compatibilit	y: Alpha 2.0 T Full Color (RGB) Capable				
E Network Configuration						
F_	F Connection Device: Modem on Com 1					
G 🗸	Phone Number: 555-1234 Cap Code:					
	Finable error checking					
		OK Cancel Apply Help				
ltem	Name	Directions				
A	Site Name	Type <i>R & D.</i>				
В	Full Color [RGB} Capable	Check this box when using an AlphaEclipse [™] PureColor [™] 3600 Series display sign (full color, not monochrome). Also, select <i>Alpha 3.0</i> under <i>Compatibility.</i>				
C	 C Use as an Editor transmit site C Belect this in Message Editor. For example, if a message is sent from Message Editor with Selected Sites chosen (see below) then both the R & D signs receive that message. C Select this in Message Editor. Transmit Site C Select this in Message Editor. This option is useful when you are testing to see what a message looks like before sending it to many signs. 					
D	Compatibility	 Alpha 1.0 (EZ95) — If all of your signs use the EZ95 protocol. EZ KEY II — For the EZII protocol or Infrared Loader. Incandescent — If all the signs on this site are either a 790i, 430i, 440i, or 460i. Alpha 2.0 — Includes features for the AlphaPremiere[™] and AlphaEclipse[™] series signs. Alpha 3.0 — Includes features for the AlphaEclipse[™] PureColor[™] 3600 Series sign. 				
E	Connection Device	Because both R & D signs are connected by a modem, select <i>Modem on Com 1</i> .				
F	Phone Number	Enter the phone number the PC modem should dial. Include '9' to dial out, if necessary.				
F	Enable error checking	Check for the software to verify that a sign received messages sent to it. When this option is on, errors will be recorded in the error log of <i>Communications Manager</i> .				

Table 7: R & D setup (1 of 4): Site Editor (Site Info) window

NOTE

Be careful when you check *Use* as an Editor transmit site for more than one site.

Whenever you transmit *To Selected Sites* in *Message Editor*, the message will go to all sites designated as a transmit site.

This means you may have messages going to signs you did not intend to use.

NOTE

If you have signs networked together that use both the *Alpha 1.0* and *Alpha 2.0* protocols, select *Alpha 2.0*.

Also, if a site includes signs which use different protocols, some of the AlphaNETTM 3.0 software features may not work. Different sites should be created for signs with different protocols.

5. Next, enter information on the *Sign Info* tab:

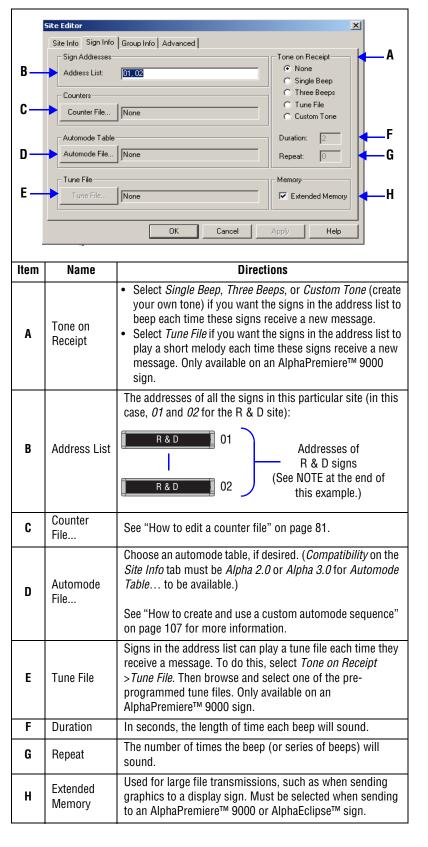


Table 8: R & D setup (2 of 4): Site Editor (Sign Info) window

HINT

A long sequence of sign addresses can be entered using a comma.

For example, the address list: 5, 6, 7, 8, 9 could also be entered as 5-9.

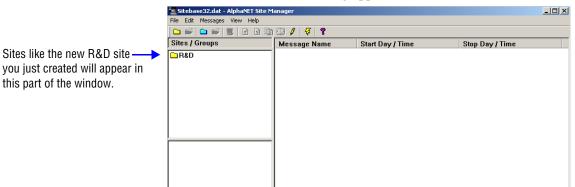
6. In this example, nothing needs to be changed on the *Group Info* tab:

Site Editor		×
Site Info Sign Info Group Info A	dvanced	
Group Setup		
Available Groups:	Joined Groups:	
		Join Group
		Leave Group
		New Group
	J	
	OK Cancel App	Help

7. In this example, nothing needs to be changed on the *Advanced* tab:

Site Editor	roup Info Advanced	×
Offsets Time Zone: 00:00 Temperature: N/A	Delayed Send Options Dimming Options Use Send Times Photocell Enabled After: 12:00 AM Y Before: 12:00 AM Y	
Memory Configuration	nory Partitions Keyboard File Size: 10	
Strings "a" - "z"		
Configuration:	OK Cancel Apply Help	

8. Select *OK* and the following appears:



Creating the Sales site — a LAN example

9. After making the R & D site, we'll create the Sales site, which consists of two signs (see "Schematic of the tutorial company" on page 18). First, select *File>New Site*:

Sitebase32	.dat - Alp	naNET Site M	anager			_O×
File Edit Mes	sages Vie Ctrl+N					
New Site Open Site	Ctrl+N Ctrl+O		S / F 8			
		-	Message Name	Start Day / Time	Stop Day / Time	
New Group	Alt+N					
Open Group	Alt+O					
Remove	Del					
Transmit	Alt-T					
Exit						
		-				
1			1			
			1			

10. After selecting *New Site*, the *Site Editor* window appears:

Site Editor			
	Site Info Sign Info Group Info Advanced		
	- Site Description		
A —	Site Name: Sales		
D —	Compatibility: Alpha 1.0 (EZ95) T Full Color (RGB) Capable		
	Network Configuration		
Ε	Connection Device: Ethernet Adapter		
F	IP Address: 192.67.12.189 Cap Code:		
G	🗾 🔽 Enable en	✓ Enable error checking	
	OK Cancel Apply Help		
ltem	Name	Directions	
Α	Site Name Type Sales.		
В	Full Color [RGB] Capable	Check this box when using an AlphaEclipse [™] PureColor [™] 3600 Series display sign (full color, not monochrome.) Also, select <i>Alpha 3.0</i> under <i>Compatibility</i> .	
C	Use as an Editor transmit site	See "R & D setup (1 of 4): Site Editor (Site Info) window" on page 30.	
D	Compatibility		
Ε	Connection Device	Because the Sales sign is connected by an Alpha® Ethernet Adapter, select <i>Ethernet Adapter.</i>	
F	IP Address	Specify the 4-node Internet Protocol address for this sign. See your network administrator if you do not know this address. See the Networking Alpha® Signs manual (pn 97000112) for information about assigning an address to an ethernet adapter.	
G	Enable error checking	Check this if you want the software to verify that a sign received messages sent to it. When this option is on, errors will be recorded in the error log of <i>Communications Manager.</i>	

Table 9: Sales setup (1 of 4): Site Editor (Site Info) window

Г

11. Next, enter information on the *Sign Info* tab:

	te Editor	×		
		aroup Info Advanced		
	Sign Addresses	Tone on Receipt A		
В —	Address List:	01, 02		
- 11	C Single Beep			
	Counters	O Tune Beeps		
C —	Counter File	None O Custom Tone		
	- Automode Table-	Duration: 2		
D	1-			
	None Repeat: 0 G			
	Tune File	Memory		
Е — 4				
- 1	· ·			
-		OK Cancel Apply Help		
		OK Cancel Apply Help		
ltem	Name	Directions		
Α	Tone on	See "R & D setup (2 of 4): Site Editor (Sign Info)		
A	Receipt	window" on page 31.		
		The addresses of the Sales signs are <i>01</i> and <i>02</i> :		
В	Address List	Sales 01 Addresses of the Sales		
D	AUDIESS LIST	signs		
		Sales 02 (See NOTE at the end of		
		(See NOTE at the end of		
C	Counter File	Sales 02 (See NOTE at the end of		
C	Counter File	(See NOTE at the end of this example.)		
C	Counter File	See "How to edit a counter file" on page 81. Choose an automode table, if desired. (<i>Compatibility</i> on the <i>Site Info</i> tab must be <i>Alpha 2.0</i> or <i>Alpha 3.0</i> for		
	Automode	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on		
C		(See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (<i>Compatibility</i> on the <i>Site Info</i> tab must be <i>Alpha 2.0</i> or <i>Alpha 3.0</i> for <i>Automode Table</i> to be available.)		
	Automode	Sales02(See NOTE at the end of this example.)See "How to edit a counter file" on page 81.Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.)See "How to create and use a custom automode		
	Automode	Sales02(See NOTE at the end of this example.)See "How to edit a counter file" on page 81.Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.)See "How to create and use a custom automode sequence" on page 107 for more information.		
	Automode	Sales02(See NOTE at the end of this example.)See "How to edit a counter file" on page 81.Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.)See "How to create and use a custom automode sequence" on page 107 for more information.Signs in the address list can play a tune file each time		
D	Automode File	Sales02(See NOTE at the end of this example.)See "How to edit a counter file" on page 81.Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.)See "How to create and use a custom automode sequence" on page 107 for more information.Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on		
	Automode	Sales02(See NOTE at the end of this example.)See "How to edit a counter file" on page 81.Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.)See "How to create and use a custom automode sequence" on page 107 for more information.Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the		
D	Automode File	Sales02(See NOTE at the end of this example.)See "How to edit a counter file" on page 81.Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.)See "How to create and use a custom automode sequence" on page 107 for more information.Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an		
D	Automode File Tune File	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremier™ 9000 sign.		
D	Automode File	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremier™ 9000 sign. In seconds, the length of time each beep will sound.		
D E F	Automode File Tune File Duration	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremiere™ 9000 sign. In seconds, the length of time each beep will sound. The number of times the beep (or series of beeps) will		
D	Automode File Tune File	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremier™ 9000 sign. In seconds, the length of time each beep will sound. The number of times the beep (or series of beeps) will sound.		
D E F	Automode File Tune File Duration Repeat	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremier™ 9000 sign. In seconds, the length of time each beep will sound. The number of times the beep (or series of beeps) will sound. Used for large file transmissions, such as when sending		
D E F G	Automode File Tune File Duration Repeat Extended	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (Compatibility on the Site Info tab must be Alpha 2.0 or Alpha 3.0 for Automode Table to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select Tone on Receipt > Tune File. Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremiere™ 9000 sign. In seconds, the length of time each beep will sound. The number of times the beep (or series of beeps) will sound. Used for large file transmissions, such as when sending graphics to a display sign. Must be selected when		
D E F	Automode File Tune File Duration Repeat	Sales 02 (See NOTE at the end of this example.) See "How to edit a counter file" on page 81. Choose an automode table, if desired. (<i>Compatibility</i> on the <i>Site Info</i> tab must be <i>Alpha 2.0</i> or <i>Alpha 3.0</i> for <i>Automode Table</i> to be available.) See "How to create and use a custom automode sequence" on page 107 for more information. Signs in the address list can play a tune file each time they receive a message. To do this, select <i>Tone on Receipt > Tune File.</i> Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremiere™ 9000 sign. In seconds, the length of time each beep will sound. The number of times the beep (or series of beeps) will sound. Used for large file transmissions, such as when sending		

Table 10: Sales setup (2 of 4): Site Editor (Sign Info) window

HINT

A long sequence of sign addresses can be entered using a hyphen.

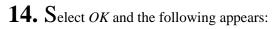
For example, the address list: 5,6,7,8,9 could also be entered as 5-9.

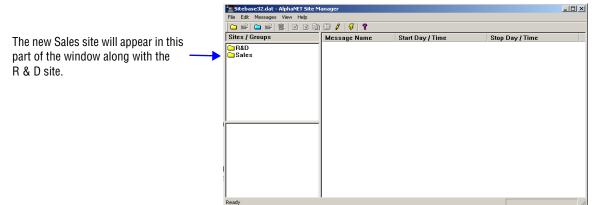
12. In this example, nothing needs to be changed on the *Group Info* tab:

9	Site Editor	×
	Site Info Sign Info Group Info Advanced Group Setup Joined Groups: Joined Groups: Available Groups: Joined Groups: Joined Group Leave Group New Group	
	OK Cancel Apply Help	

13. In this example, nothing needs to be changed on the *Advanced* tab:

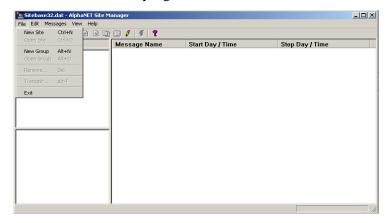
Offsets Time Zone:	Delayed Send Options	Dimming Options
00:00 💌	After: 12:00 AM	
Temperature:	Before: 12:00 AM	Dim On Time: Dim Off Time: Never
- Memory Configuration		
🔲 Assign Fixed Mer	nory Partitions	Keyboard File Size: 10
🔲 Strings "A" - "Z"		🔲 Configure as ticker site
🔲 Strings ''a'' - ''z''		
🔲 Strings ''1'' - ''9''		
Configuration:		





Creating the Lobby, Engineering, and Manufacturing sites — a wired example

15. After creating the Sales site, we'll create the Local sites. First, we'll create the two lobby signs. Select *File>New Site*:



16. After selecting *New Site*, the *Site Editor* window appears:

Table 11: Lobby setup (1 of 4): Site Editor (Site Info) window

A D E	Site Editor Site Info Sign Info Gro Site Description- Site Name: Compatibility: Network Configur Connection Devic Phone Number: Phone Number: Phone Enable error c	Lobby Alpha 1.0 (EZ95) Full Color (RGB) Capable Use as an Editor transmit site ation e: Local Wired Com 2 Gap Code:
		OK Cancel Apply Help
ltem	Name	Directions
A	Site Name	Type <i>Lobby</i> .
В	Full Color [RGB] Capable	Check this box when using an AlphaEclipse [™] PureColor [™] 3600 Series display sign (full color, not monochrome). Also, select <i>Alpha 3.0</i> under <i>Compatibility</i> .
C	Use as an Editor transmit site	
D	Compatibility	See "Sales setup (1 of 4): Site Editor (Site Info)
E	Connection Device	window" on page 33.
F	Enable error checking	

17. Next, enter information on the *Sign Info* tab:

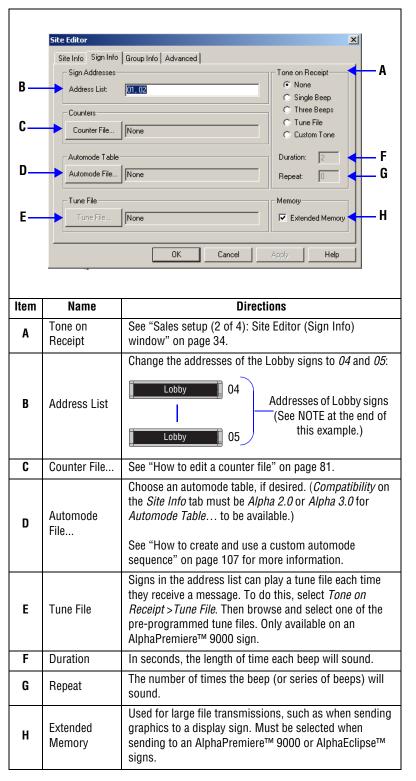


Table 12: Lobby setup (2 of 4): Site Editor (Sign Info) window

HINT

A long sequence of sign addresses can be entered using a hyphen.

For example, the address list: 5,6,7,8,9 could also be entered as 5-9.

18. In this example, nothing needs to be changed on the *Group Info* tab:

Site Editor	Ndvanced	×
Group Setup	·	
Available Groups:	Joined Groups: Join Group Leave Group New Group	
	OK Cancel Apply Help	

19. In this example, nothing needs to be changed on the *Advanced* tab:

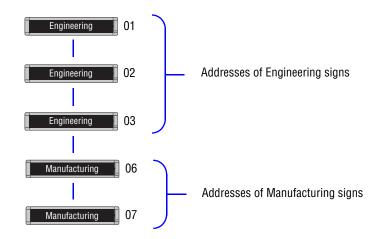
Site Editor		×
Site Info Sign Info G	iroup Info Advanced	
Offsets Time Zone: 00:00 • Temperature: N/A • Memory Configuration Assign Fixed Met	mory Partitions K	Dimming Options Photocell Enabled Brightness %: 50 Dim On Time: Dim Off Time: Never eyboard File Size: 10 Configure as ticker site
Strings "A * 2 Strings "a" - "2" Strings "1" - "9" Configuration:		
	OK Cano	el Apply Help

20. Select *OK* and the following appears:

🖆 Sitebase32.dat - AlphaNET Site Manager						
File Edit Messages View Help						
Sites / Groups	Message Name	Start Day / Time	Stop Day / Time			
□Lobby □R&D □Sales						
Ready				//_		

The new Lobby site will appear in this part of the window along with the ——> other sites you created.

21. The Engineering and Manufacturing sites are created just like the Lobby site. However, make sure that addresses of the Engineering and Manufacturing signs are set as follows:



Note:To set the address of a sign see "How to change a sign's serial address" on page 15.

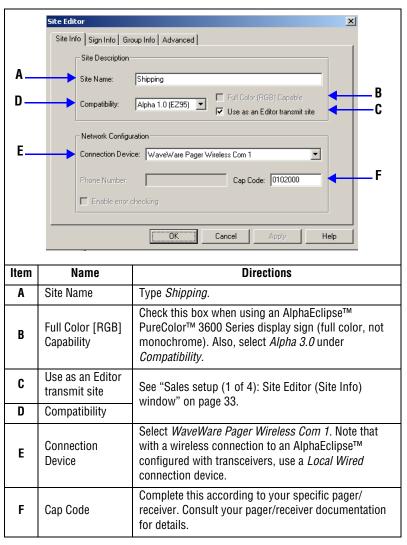
Creating the Shipping site — a wireless example

22. The last site we have to create is Shipping, which is a wireless site. Select *File>New Site*:

🔁 Sitebase 32			anager			<u> </u>
File Edit Mes						
New Site Open Site	Ctrl+N Ctrl+O	e s En	33 / F 8			
		-	Message Name	Start Day / Time	Stop Day / Time	
New Group Open Group	Alt+N Alt+O					
		-				
Remove	Del	_				
Transmit	Alt-T	_				
Exit						
		-				
, 						
,			1			

23. After selecting *New Site*, the *Site Editor* window appears:

Table 13: Shipping setup (1 of 4): Site Editor (Site Info) window



$24. Next, enter information on the {\it Sign Info} tab:$

В — С — Е —	Site Editor Site Info Sign In Sign Addresse Address List: Counters Counter File. Automode Tab Automode File Tune File	Image: Constraint of the second se				
ltem	Name	Directions				
A	Tone on Receipt	See "Sales setup (2 of 4): Site Editor (Sign Info) window" on page 34.				
В	Address List	The address of the Shipping sign can be left at its factory default value of <i>OO</i> :				
C	Counter File	See "How to edit a counter file" on page 81.				
D	Automode File	Choose an automode table, if desired. (<i>Compatibility</i> on the <i>Site Info</i> tab must be <i>Alpha 2.0</i> or <i>Alpha 3.0</i> for <i>Automode Table</i> to be available.) See "How to create and use a custom automode sequence" on page 107 for more information.				
E	Tune File	Signs in the address list can play a tune file each time they receive a message. To do this, select <i>Tone on</i> <i>Receipt</i> > <i>Tune File</i> . Then browse and select one of the pre-programmed tune files. Only available on an AlphaPremiere [™] 9000 sign.				
F	Duration	In seconds, the length of time each beep will sound.				
G	Repeat	The number of times the beep (or series of beeps) will sound.				
Н	Extended Memory	Used for large file transmissions, such as when sending graphics to a display sign. Must be selected when sending to an AlphaPremiere [™] 9000 or AlphaEclipse [™] sign.				

Table 14: Shipping setup (2 of 4): Site Editor (Sign Info) window

25. In this example, nothing needs to be changed on the *Group Info* tab:

Site Editor Site Info Sign Info Group Info A		×
Group Setup		
Available Groups:	Joined Groups: Join Group Leave Group New Group	
	OK Cancel Apply Help	

26. In this example, nothing needs to be changed on the *Advanced* tab:

Offsets	- Delayed Send Options	Dimming Options
Time Zone:	🔲 Use Send Times	Photocell Enabled
00:00	After: 12:00 AM 💌	Brightness %; 50 💌
Temperature:	Before: 12:00 AM	Dim On Time: Dim Off Time: Never
- Memory Configuration		
🔲 Assign Fixed Mer	nory Partitions	Keyboard File Size: 10
🔲 Strings "A" - "Z"		Configure as ticker site
🔲 Strings "a" - "z"		
🔲 Strings "1" - "9"		
Configuration:		

27. Select *OK* and the following appears:

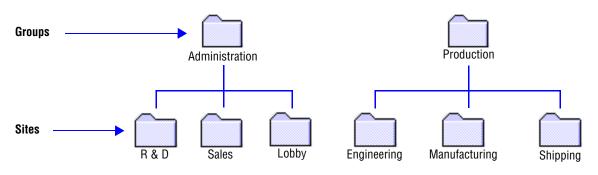
	🚰 Sitebase32.dat - AlphaNET Site M	anager			
	File Edit Messages View Help				
		🖾 🥖 😽 🤋			
	Sites / Groups	Message Name	Start Day / Time	Stop Day / Time	
The new Shipping site will appear in this part of the window.	©Engineering				
	Ready			ALL MESSAGES	

Step 3: Creating or changing the groups

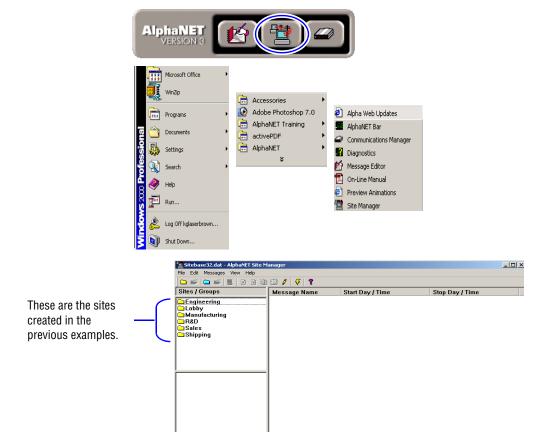
A group is a collection of one or more sites. In our imaginary company, there are two groups, Administration and Production.

Groups are a convenient method of organizing sites into categories so that messages can easily be sent to multiple sites.

For example, in our imaginary company, we might have a message intended for just the R &D site or just the Sales and Lobby sites. However, many times we will want a message to go to the R & D and the Sales and the Lobby sites. This is where groups come in. A group is a method of sending messages to several sites.



1. To create the Administration group, open *Site Manager* if it is not already opened:



2. Select *File>New Group*. The following appears:

Group Editor		×
Group Name:		ОК
All Sites: Engineering Lobby Manufacturing R&D Sales Shipping	Sites in this group:	Cancel
		Include Site Remove Site

3. For *Group Name*, type *Administration*. Next, click *R* & *D* and then *Include Site* to add the R & D site to the Administration group. (You can also double-click the sites to include them.) Add the Sales and Lobby sites to the Administration group in the same way:

HINT

Use the *Ctrl* key to select multiple sites.

Also, you can double-click a site to include it. However, to exclude a site, you must select it in the right column and then click *Remove Site*.

Group Editor		
Group Name: Administration All Sites: Engineering Lobby Manufacturing R&D Sales Shipping	Sites in this group: Lobby R&D Sales	Cancel
		Include Site Remove Site

4. When you are finished adding the Sales and Lobby sites, select *OK* and the following appears:

	1			- 0 2		
	File Edit Messages View Help	file Edit Messages View Help				
	🗀 📽 🖴 📽 🐮 🖻 🖻 🛍	🕄 🖉 😴 😵				
	Sites / Groups	Message Name	Start Day / Time	Stop Day / Time		
Groups, like Administration, will appear in this area.	Engineering Lobby Manufacturing Sales Shipping					
	Ready					

5. To see the sites that belong to a single group, just click on that group. The folder for the group will open and only the sites in that group will be listed:

NOTE

To return to seeing all sites, hold down the *Ctrl* key while clicking once on the name of the group you just chose in this step. The folder icon for that group will close and all other sites will be listed.

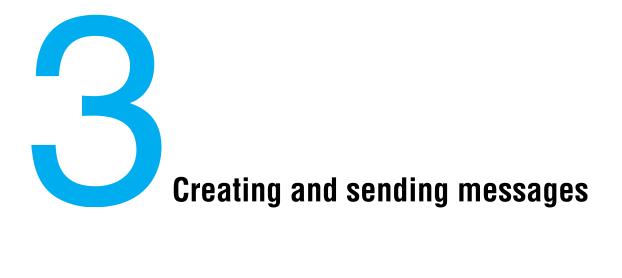
	🖆 Sitebase32.dat - AlphaNET Site Manager				
	File Edit Messages View Help				
	Sites / Groups	Message Name	Start Day / Time		
When you select a group, the sites in the group appear.	Clobby R8D Sales				

6. The Production group is created almost exactly like the Administration group. However, the Production group is made up of the Engineering, Manufacturing, and Shipping sites. After adding the Production group, this window appears:

🖆 Sitebase32.dat - AlphaNET Site Ma	anager			_ 🗆 🗙
File Edit Messages View Help				
🗅 📽 🗅 📽 🚺 🖻 🖄	🖾 🥖 😴 🤋			
Sites / Groups	Message Name	Start Day / Time	Stop Day / Time	
Engineering Manufacturing Shipping Administration Production				
Ready				

Step-by-step tutorial in setting up connection devices, sites, and groups

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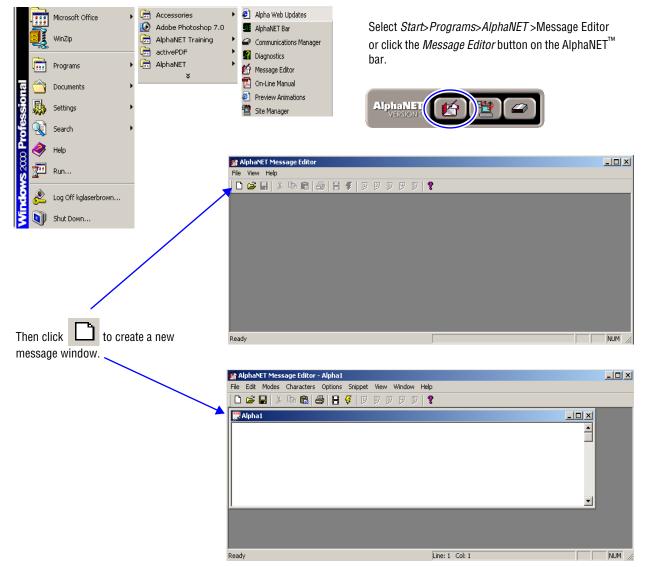
Basic message editing

Because AlphaNET[™] 3.0 software allows you an infinite number of ways to create a message for a sign, it is not possible to show every one. In the following pages, however, examples of basic and advanced message editing are presented.

First, the basics.

Using Message Editor to create your message

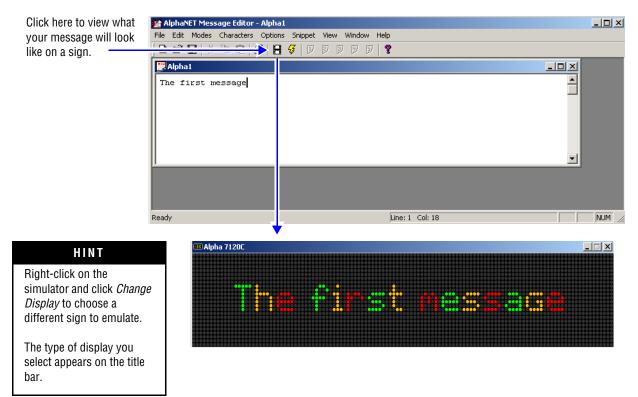
1. After installing the AlphaNET[™] 3.0 software on your PC, open *Message Editor*. Then open a window for a new message:



2. Type *The first message* in the window:

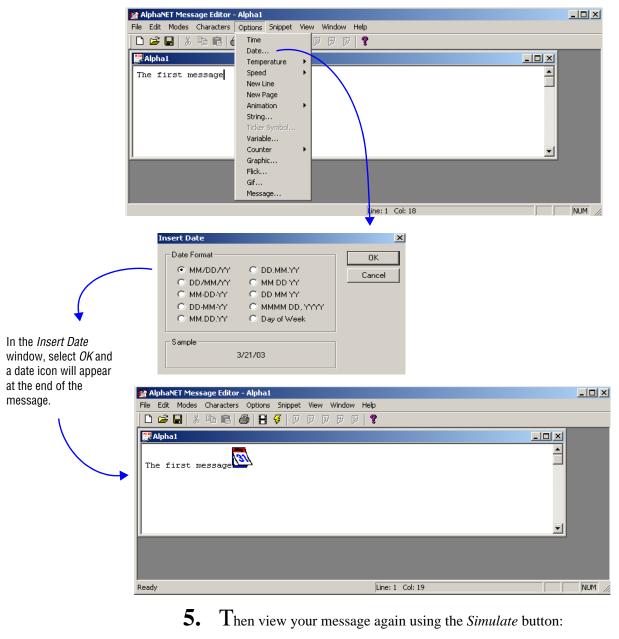
File Edit Modes Characters Options Snippet View Window Help Image: Solution Snippet View Window Help	
Alpha1	
The first message	
Ready Line: 1 Col: 18	JUM //

3. Use *File>Simulate* to view what the message will look like on a sign, or click the *Simulate* button on the toolbar:



Note:The type of sign on which your message is being simulated appears on the title bar of the window (in this case, an Alpha® 7120C). To change it, right-click anywhere on the simulated message and select *Change Display*.

4. Add the current date to your message. First, close the window in which your message is being simulated. Then select *Options>Date* in *Message Editor*:

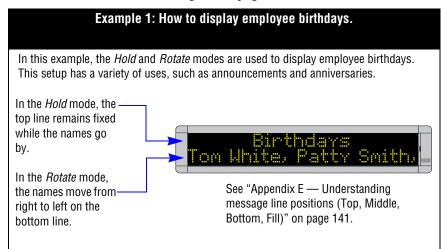




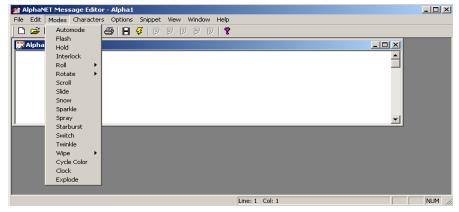
Using modes to change the look of a message

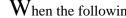
Modes are special effects that change the way a message appears on a sign. For example, the Rotate mode moves a message from right to left across a sign. In this example, you will create a message that displays employee birthdays.

NOTE: Some modes are not available on some signs. For a list of what modes are available, see "Appendix B — Modes available on signs" on page 137.



To create Example 1, close the previous message but don't save it. 6. Next, open a new message. Then select *Modes>Hold*:



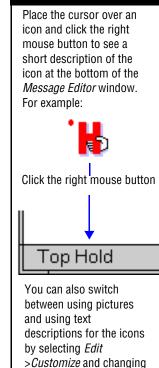


7.

When the following window appears, select *Top* and then *OK*:

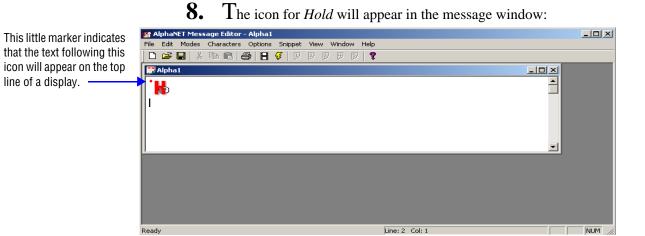
Line Position is where a message appears on a sign. See "Appendix E — Understanding message line positions (Top, Middle, Bottom, Fill)" on page 141 for more details.

H	old		×
	−Line Position ○Fill ⊙Top ○Left	C Middle C Bottom C Right	OK Cancel

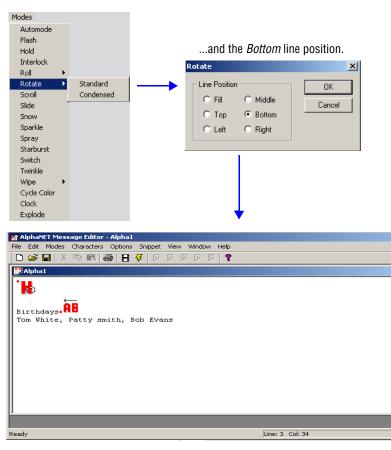


HINT

the icon style



9. Type *Birthdays*. Then select *Modes*>*Rotate*>*Standard*>*Bottom*. Click *OK* and then type: *Tom White*, *Patty Smith*, *Bob Evan*.



Select Rotate>Standard

10. Next, click \blacksquare to view your message:

HINT

View (simulate) your message to see exactly how it will appear on a sign.

You can see how fonts, colors, and graphics will appear on a sign and also how much text will appear on a line. (If text appears in white, this means it is too long to fit on the display. If possible, break the text into smaller segments.)

For example, these pictures show how the message you just created would appear on a one-line Alpha® 215C sign.



■ Alpha 7120C	≌ Alpha 7120C			
■ Alpha 7120C	🚥 Alpha 7120C			_ []
<u>Birthdays</u>		Birthd White, P	ays atty smit	
<u>Birthdays</u>				
<u>Birthdays</u>				000000
	🚥 Alpha 7120C			_ 🗆
'atty boltny boo byan				

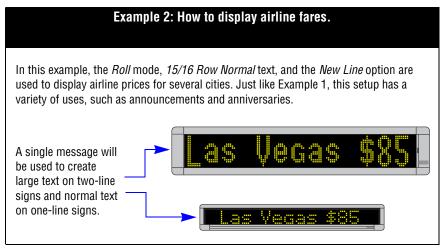


	Save As			<u>? ×</u>
	Save in: 🕒	AlphaNET	- E	* III •
Make sure the file is saved to this folder.	25 26 27 28 33	 36 37 38 39 40 	Gifs Gifs Gifs Samples Skins	
Name the Example 1 message <i>Alpha1.msw.</i>	35	54		
	File name:	Alpha1.msw		Save
	Save as type:	AlphaNET Msg (*.msw)	•	Cancel

Using characters to change the look of a message

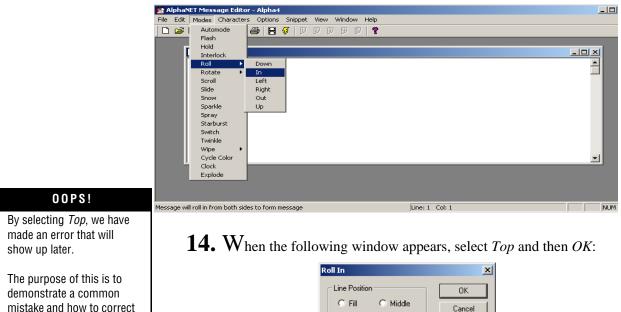
Characters are options that change the appearance of text in a message. For example, normal-sized text (called *Seven Row Normal*) is seven rows of LEDs high, but some signs allow you to create text 15 or 16 rows high with the *15/16 Row Normal* option. In this example, we will create a message that displays airline fares.

NOTE: Some characters are not available on some signs. For a list of what is available, see "Appendix C — Character fonts and colors available on signs" on page 139.



12. Select *File>New* to open a new message.

13. Then select *Modes*>*Roll*>*In*:



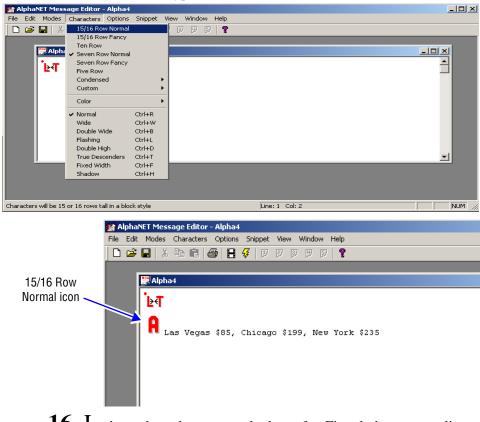
• Тор

O Left

O Bottom

O Right

it.



15. Because we want large text, select *Characters*>15/16 Row Normal. Then type Las Vegas \$85, Chicago \$199, New York \$235:

16. Let's see how the message looks so far. First, let's try a one-line sign. Simulate your message and change the sign to a 215C. (If you do not remember how to do this, see step 3.) The message should look like this:



17. Change the sign to a 4120C, a two-line sign. (If you do not remember how to do this, see step 3.) This is how it should look:

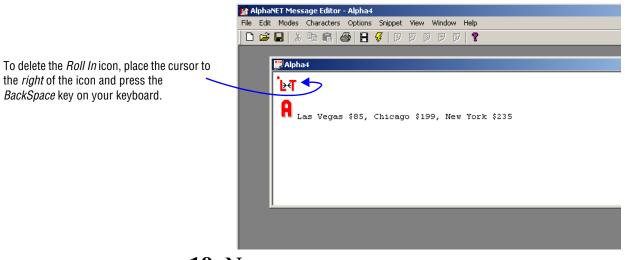
To make the large *15/16 Row Normal* text appear correctly, the line position must be changed to *Middle*.

as Vegas \$85, Chicago

Why doesn't the large text appear on the two-line 4120C sign like we wanted? Because in a previous step we selected the *Top* instead of the *Middle* or *Fill* line position:

Roll In		×
Line Position	C Middle	ОК
• Тор	C Bottom	Cancel
C Left	C Right	

18. To make the large *15/16 Row* characters appear correctly on a two-line sign, start by deleting the *Roll>In* icon from the message:



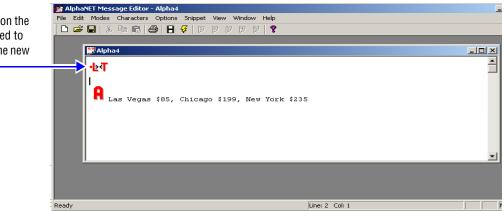
19. Next, without moving the cursor in the message, select *Modes*> *Roll*>*In* as you did before. When the following window appears, select the *Middle* line position:

Roll In		×
Line Position C Fill C Top C Left	 Middle Bottom Right 	OK Cancel

20. Simulate the message using a two-line sign like the 4120C. (If you do not remember how to do this, see step 3.) The *15/16 Row Normal* text should now appear correctly:



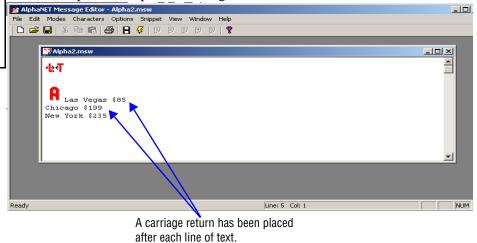
Your message text should look like this:



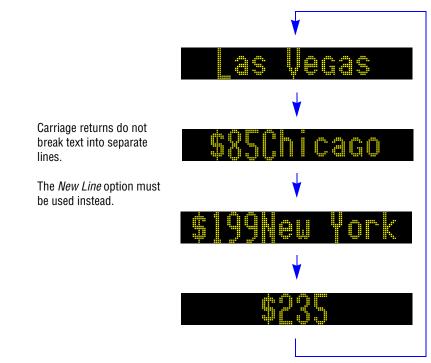
Notice that this marker on the *Roll>In* icon has changed to the middle, indicating the new line position.

- **21.** Save your message and name it *Alpha2.msw*. However, keep using the message for the following steps.
- 22. Now we will try displaying a city name and dollar amount on a sign at the same time.

Try deleting the comma and space between each city and amount pair. Then place a carriage return after each, like this:



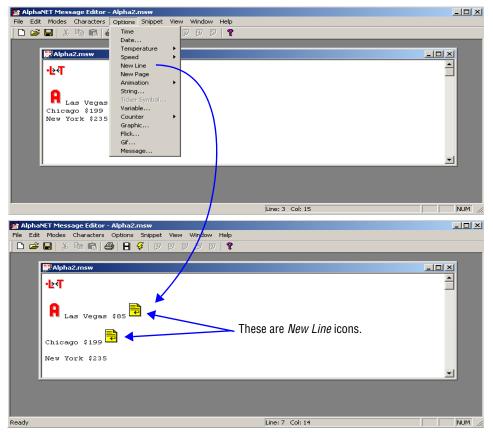
23. Next, simulate the message to see how carriage returns affect the message format. This is what you should see:



OOPS! Using a carriage return might seem like the logical way to format lines of text in a message, but it does not work.

We will correct this later with the *New Line* option.

24. To format the text so that *Las Vegas* \$85 and *Chicago* \$199 and *New York* \$235 all appear on separate lines, add the *New Line* option after each city and amount pair. To do this, use the *Options* menu:



25. Simulate the message to see how *New Lines* affect the message format. This is what you should see:



Using international characters

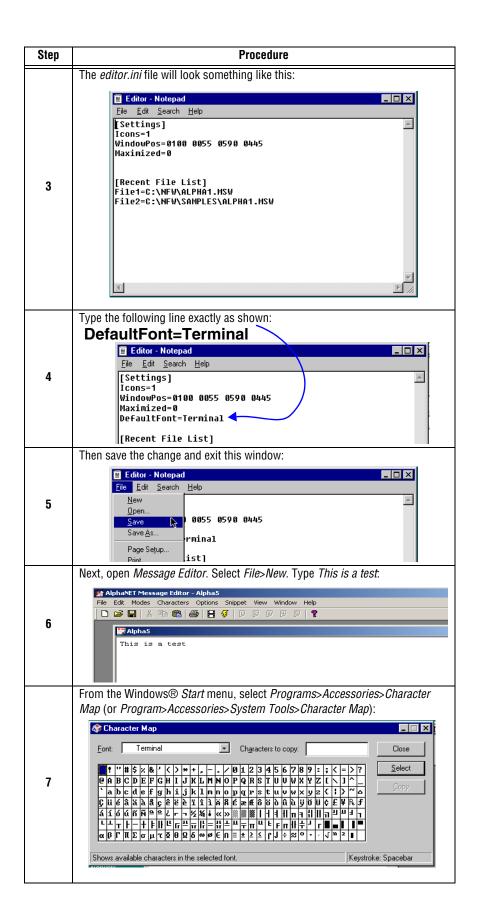
International characters—such as the *é* in *résumé*—are available in French, German, Italian, Spanish, and Croatian.

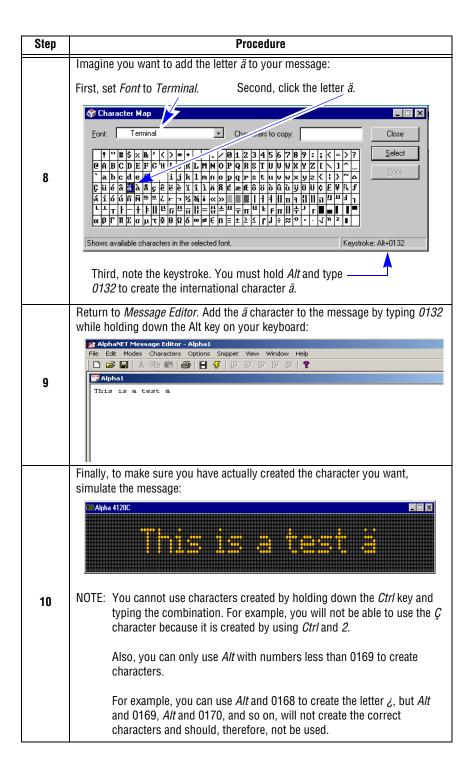
Additional characters are also available. Check the *Character Map* accessory to see if contains the character you want.

NOTE: These instructions are for a Windows® 95 operating system; menu selections and screens may be different in other versions of Windows®.

Follow this procedure to use international characters: tep Procedure

Step	Procedure
1	From the Windows® Start menu, select Find and then Files or Folders: Programs Documents Settings Find Find Programs Documents Settings Find Programs Documents Settings Setti
2	Use Find to locate the editor.ini file and then double-click it to open:





How to send a message to a sign

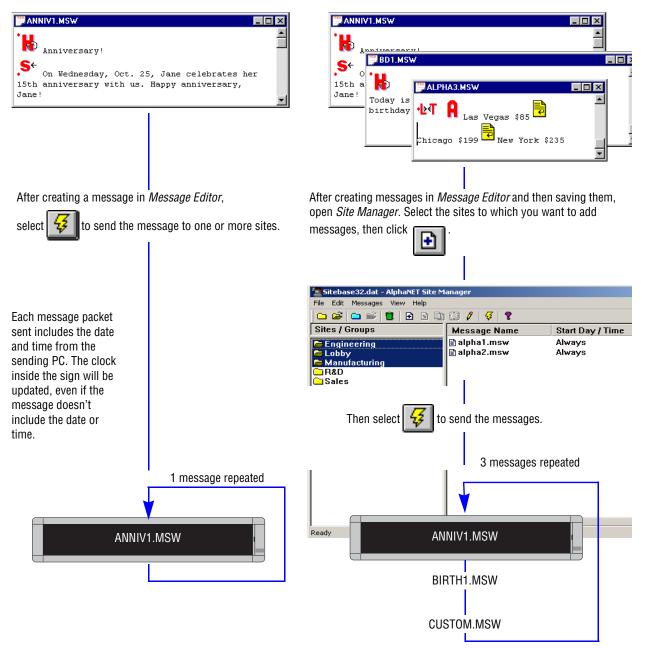
What happens when messages are sent to a sign?

Messages are sent to signs using either *Message Editor* or *Site Manager*. One message at a time is sent from *Message Editor*, and it erases all other messages in the sign's memory. This one message, then, plays over and over.

More than one message at a time can be sent from *Site Manager*, and they erase all other messages in the sign's memory. These new messages are then displayed one after the other.

When a single message is sent with *Message Editor*.

When more than one message is sent with *Site Manager*.



Sending messages from Message Editor

HINT

Generally, only send messages from *Message Editor* when:

- testing to see how a
 message looks, or
- there is only one sign.
- **1.** Before sending a message, you must create at least one site using *Site Manager*. (See Step-by-step tutorial in setting up connection devices, sites, and groups in Chapter 2.)
- 2. Next, create your message in *Message Editor*. When you are finished, send it to one or more sites:

	and Alphane Pressage Euror - Alphaz
	File Edit Modes Characters Options Snippet View Window Help
	🗅 😅 🖬 វ 🛍 💼 🚭 🗄 🞸 P P P P P 🤋
 Click for the transmit the message: To All Sites — every site you have created in Site Manager or To Selected Sites — only those Site Manager sites that have been specially selected as Use as an Editor transmit site. (See "R & D setup (1 of 4): Site Editor (Site Info) window" on page 30 in Chapter 2.) 	Alpha2
	Ready Line: 1 Col: 55
	Transmit X Transmit Options OK To All Sites Cancel To Selected Sites Cancel

Sending messages from Site Manager

HINT

To select more than one site, first hold down the *Ctrl* key on your keyboard, then click the sites:

- **1.** Before sending a message, you must create at least one site using *Site Manager*. (See Step-by-step tutorial in setting up connection devices, sites, and groups in Chapter 2.)
- 2. If you have not already done so, add your message to the site (or sites) to which you want the message sent:

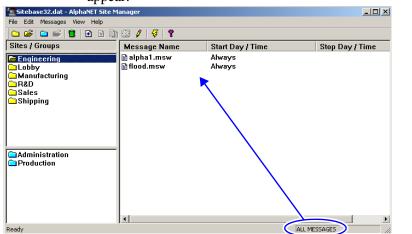
🖀 Sitebase32.dat - AlphaNE1	f Site Manager			_	
File Edit Messages View H	elp				
🗅 😂 🗀 🗳 🖪	S 🗈 🕄 🖊	- 5 ?			
Sites / Groups	Mess	age Name	Start Day / Time	Stop Day / Tir	ne
Engineering Manufacturing Reb Sales Shipping		Select to to the Sa	add a message les site.		
	Add Message			? X	
Ready	Look in: 🔁	AlphaNET	💌 🗢 🔁	I 💣 🎟 🗸 🔰 I	•
	25 26 27 28 33 33	 36 37 38 39 40 54 	C 57 Gfs Samples Skins Alpha1.msw Alpha2.msw	Flood.msw	11.
	•	-			
	File name: Files of type:			Open Cancel	
	Files of type:	AlphaNET Msg (*.r	nsw) 🗾	Carleer	

3. Next, select the message. The message can be edited, scheduled by day, date, and time, or transmitted immediately:

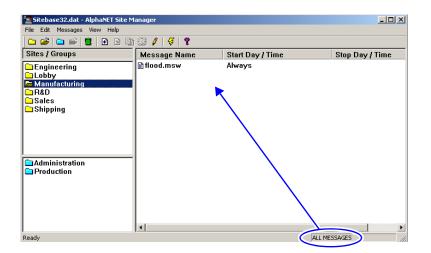
🖀 Sitebase32.dat - AlphaNET Site M	1anager			
File Edit Messages View Help	\frown			
🗅 😂 🗀 学 🛢 🗈 🖻	(🕄 🖉 😴 🦹			
Sites / Groups	ame	Start Day / Time	Stop Day / Time	
Engineering	🖹 flood.msw	Always		Select 🔣 to set the day, date, and time wh
Lobby				
R&D				the message will start and stop on the Sales s
🗁 Sales 🗀 Shipping				
Sinpping				or
				select 🧳 to edit the message in <i>Message</i> i
Administration				before sending it, or
				boloro containg it, or
				select 🛃 to transmit the message immedi
	•		Þ	to all the signs in the Sales site.
Ready			ALL MESSAGES	0

The difference between all messages and common messages

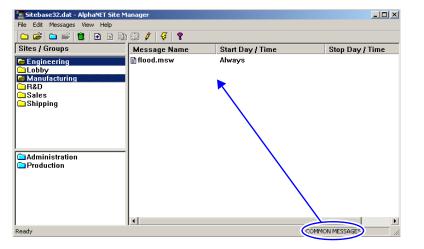
When you select a single site, all the messages attached (added) to the site will appear in the *Site Manager* window. However, when you select more than one site, only the messages that are common to both will appear.



When the Engineering site is selected, all the messages attached to the site appear.



Also, when the Manufacturing site is selected, all the messages attached to the site appear.



However, when both sites are selected, then only the messages that are common to both sites will appear.

How to use graphics in messages

HINT

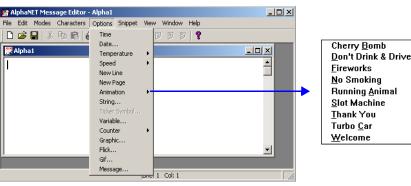
Example graphic files are included with AlphaNET[™] 3.0 software.

Look in the Samples folder installed on your computer.

The Animation, Graphic, Flick, and Gif options allow you to include small pictures in messages. Use the Graphic option to display single bitmapped images, and the Animation, Flick, or Gif option to display multiple images—like a movie. Note that not all signs display animations.

For the *Graphic, Flick*, and *Gif* options, you can create the images yourself, use the animations provided (such as Running Animal, which shows a horse running across the sign), use the gif files provided, or pull an image from another source, such as the Internet.

Animation, Graphic, Flick, and Gif are in the Options menu:

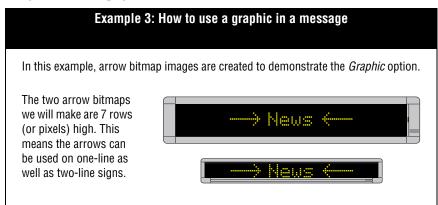


Creating a graphic

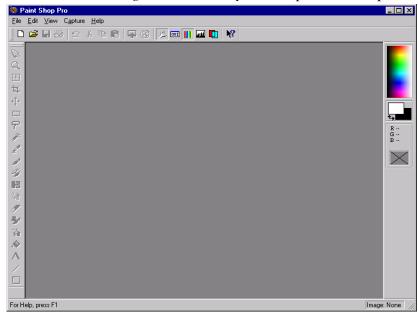
Before you actually start drawing, make sure you understand how a bitmapped image is displayed on a sign. See "Graphics must be bitmapped to a sign's columns and rows" on page 149.

You will need a program to create and edit bitmapped images. Image editing software examples in this manual illustrate version 5.03 of Paint Shop Pro (the steps are similar for newer versions of Paint Shop Pro).

Any image editing program can be used (See "Paint Shop Pro — an image editor" on page 150.)



1. Select *Start>Programs>Paint Shop Pro* to open Paint Shop Pro:



- 2. Next, select *File>New*. When the *New Image* window appears, make the width and height of the new bitmap 16 x 7:
 - NOTE: *Width* and *Height* define the size of the bitmap in pixels—16 pixels wide x 7 pixels tall. These numbers also correspond to a sign's columns and rows—16 columns wide x 7 rows tall.



HINT

similar to Paint Shop Pro.

However, if you are not

that has a zoom feature so you can increase the size

of the bitmap for ease of

editing.

using Paint Shop Pro, consider using software

Most image editing programs create images

Because a maximum of 8 colors can be used on signs, select 16 colors instead of 256 in your image editing program.

New Image 👘					х	
Image dimen:	sions					
<u>₩</u> idth:	16	<u> </u>	Pixels			
Hejght:	7	<u>×</u> <u>×</u>				
<u>R</u> esolution:	72.000	<u> </u>	Pixels /	inch 💌		
- Image charac	cteristics -				-	
<u>B</u> ackground	color:	Foregro	und Color	•		
I <u>m</u> age type:	256	Colors (8 E	Bit)	-		
Memory Required: 1.1 KBytes						
(OK]	Cancel		Help		

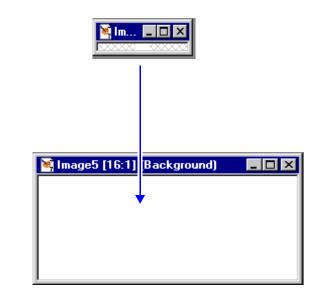
We are using 7 because this is the height of a single line of normal text on a sign.

HINT Use the zoom feature to increase the size of the small window until the window says 16:1.

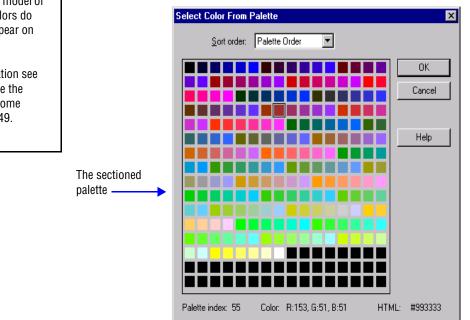
At 16:1, editing the

graphic is much easier.

3. A very small window will appear. Use the zoom tool to click in the window to increase its size to 16:1:



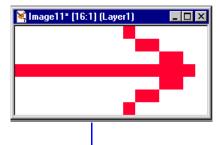
4. Select a color for your graphic from the blended palette on the right-hand side of your screen. You can also double-click the foreground or background rectangle underneath the blended palette to choose a color from a sectioned palette.



HINT

Depending on the model of the sign some colors do not effectively appear on the sign display.

For more information see "A graphic may be the wrong color for some signs" on page 149. **5.** Then draw the right arrow and save it as a BMP bitmap named *rarrow.bmp*:

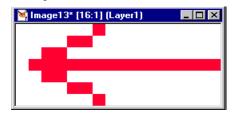


Name the graphic *rarrow.bmp*.

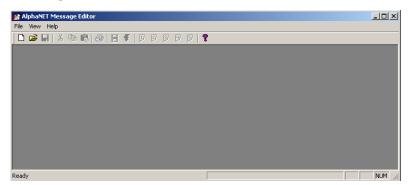
I

Save As			? ×
Savejn: 🔁	iraphics	- 🗈 🗅	* 🔳
🚊 .AppleFileInfo	📝 NewlmageZoom.bmp		
Diagnostics pro			
International ch			
🛄 ship	SPM ain Scr. bmp		
🛃 BigWin.bmp	Rarrow.bmp		
🛃 Newlmage.bm	🛃 SmallWin.bmp		
	↓		
File <u>n</u> ame: Ra	rrow.bmp		<u>S</u> ave
Save as type: 🛛 🗰	ndows or OS/2 Bitmap (*.bmp)	-	Cancel
			<u>H</u> elp
			Options

6. Create the other arrow (shown below) using steps 2 through 4 and save it as *larrow.bmp*:



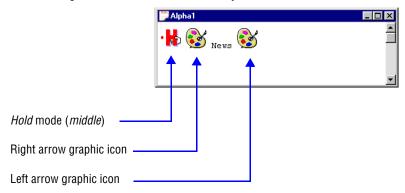
7. Next, open *Message Editor*. Then select *File>New*:



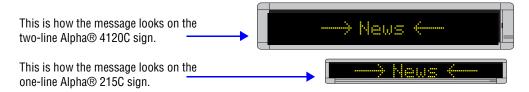
8. Select *Modes>Hold*, using the *Middle* line position. Then select *Options>Graphic*. When the *Select Graphic* window appears, choose the *rarrow.bmp* (right arrow) file you just created:

Select Grap	nic	<u>? ×</u>
Look in: 🧲	🛚 AlphaNET	- 🖬 🎽 🖬 -
2 25 2 26 2 27 2 28 3 33 3 35	236 237 238 239 240 240 254	🗀 57 C Gifs Samples Skins Larrow.bmp Rarrow.bmp
File name:	*.bmp	Open
Files of type:	Bitmap (*.bmp)	Cancel

9. An icon representing the graphic will appear. Type *News* after it. Put a space before and after *News*. Finally, put the left arrow bitmap (larrow.bmp) after *News*. This is what you should now see:



10. Simulate your message to see what it looks like:



Note:Graphics that are 24 rows high should be displayed and simulated on 3-line signs (or greater) and not on one- or two-line signs where the graphics will appear garbled.

NOTE

For graphics, any mode can be used. For flicks, the *Hold* mode must be used.

For either graphics or flicks, the mode selected must use the *Middle* line position.

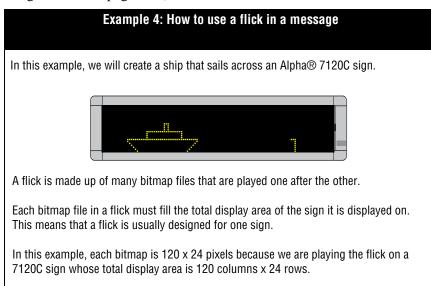
Creating a flick

NOTE: The *Flick* option only works with AlphaVision[™] and Series 7000 signs. However, see "Another way to create a flick" on page 76 to create an animation on another type of sign.

A flick is a series of bitmap images that are shown one after the other, which gives the illusion of movement on a sign. The *Flick* option is used to put a movie in a message, and is made up of individual bitmapped images that you must create.

You will need a program to create and edit bitmapped images. Image editing software examples in this manual illustrate version 5.03 of Paint Shop Pro (the steps are similar for newer versions of Paint Shop Pro).

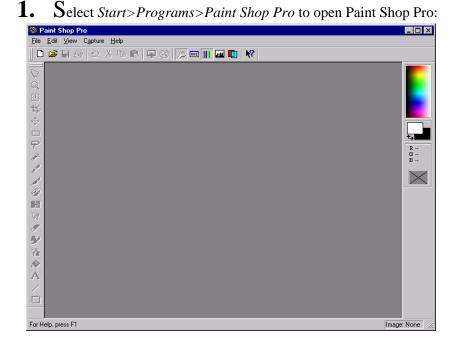
Any image editing program can be used (See "Paint Shop Pro — an image editor" on page 150.)



HINT

Most image editing programs create images similar to Paint Shop Pro.

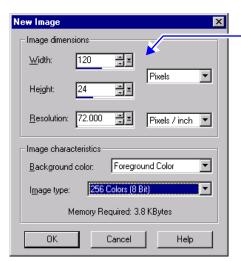
However, if you are not using Paint Shop Pro, consider using software that has a zoom feature so you can increase the size of the bitmap for ease of editing.



2. Next, select *File>New*. When the *New Image* window appears, make the width and height of the bitmap 120 x24 pixels.

Each graphic in the flick for the Alpha® 7120C sign must be this size.

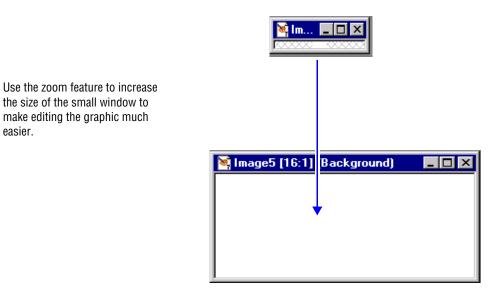
NOTE: *Width* and *Height* define the size of the bitmap in pixels—120 pixels wide x 24 pixels high. These numbers correspond to the 7120C's columns and rows—120 columns wide x 24 rows tall.



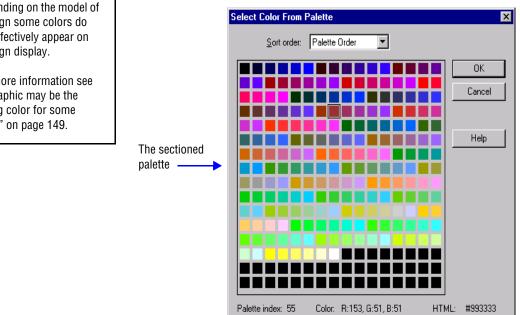
We're using 120 x 24 for width and height because this is the total display area of an Alpha® 7120C sign.

HINT

Because a maximum of 8 colors can be used on signs, select 16 colors instead of 256 in your image editing program. 3. A very small window will appear. Use the zoom tool to click in the window to increase its size:



4. \mathbf{S} elect a color for your graphic from the blended palette on the right-hand side of your screen. You can also double-click the foreground or background rectangle underneath the blended palette to choose a color from a sectioned palette.



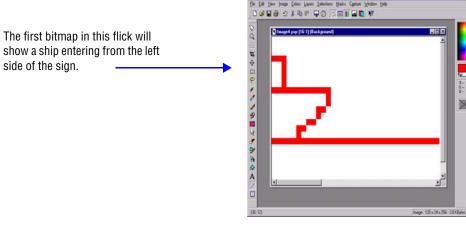
HINT

easier.

Depending on the model of the sign some colors do not effectively appear on the sign display.

For more information see "A graphic may be the wrong color for some signs" on page 149.

5. Then draw the first bitmap image:



6. After you are finished drawing the first bitmap, save it—and all the other flick bitmaps—in a folder named *ship*.

Name this first bitmap *ship00.bm*p and save it as a BMP file:

NOTE: The name of each bitmap in a flick is important. The first bitmap's name must end with 00, such as *ship00.bmp*. The second bitmaps's name must end with 01, such as *ship01.bmp*. The third bitmap's name must end with 02, such as *ship02.bmp*, and so on. Up to 100 bitmaps can be in a flick and must be numbered 00 to 99, such as *ship00.bmp* through *ship99.bmp*.

		Save all the flick special folder yo	
Save As			? ×
Save jn:	🔄 ship 🗡	E	📸 🔳
AppleFilel	nfo		
File <u>n</u> ame:	ship00.bmp		<u>S</u> ave
Save as <u>type</u> :	Windows or OS/2 Bitmap (*	.bmp)	Cancel
			<u>H</u> elp
			Options

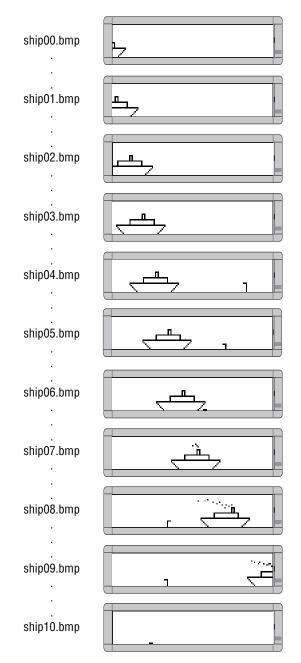
HINT

Even though up to 100 bitmaps can be in a flick, keep in mind that a sign's memory capacity is limited.

So experiment first with small flicks on a sign.

7. Create the other bitmaps in the flick. Each bitmap file must end with a consecutive number—00, 01, 02, and so on—and each bitmap must be saved as a BMP file in a special folder for the flick (*ship*, in this case).

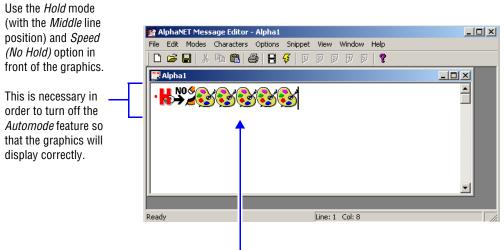
The completed flick of 11 bitmaps shows a ship crossing the screen. When the ship is about mid-screen, a submarine periscope appears in front of the ship. The periscope disappears as the ship passes above it, but pops up again behind the ship, looks around, then goes under water.



Another way to create a flick

Though the *Flick* option will only work with AlphaVisionTM and Series 7000 signs, there is another way to create the illusion of motion on a sign.

The *Graphic* option can be used to place one graphic after another in a message:



ship00.bmp through ship05.bmp

Creating a GIF

HINT

Most image editing programs can create GIF images similar to Paint Shop Pro Animation.

However, if you are not using Paint Shop Pro Animation, consider using software that has a zoom feature so you can increase the size of the bitmap for ease of editing.

HINT Depending on the model of the sign some colors do

not effectively appear on the sign display.

For more information see "A graphic may be the wrong color for some signs" on page 149. NOTE: The GIF option will only work with the 7000 series, 9000 series, AlphaVisionTM (full matrix), and AlphaEclipseTM signs. If a different sign is used, *Extended Memory* must be checked on the *Sign Info* tab of *Site Editor* in order for this feature to work.

A GIF contains multiple images in one file that simulate animation, such as a hummingbird hovering above a flower. The GIF option is used to put moving animation in messages, and you can use the GIF files provided or create your own (see the example below). Note that GIF files are available on Adaptive's Web site at http://www.ams-i.com/Pages/ gif.htm, free and formatted.

You will need a program to create and edit your GIF images. Image editing software examples in this manual illustrate version 5.03 of Paint Shop Pro (the steps are similar for newer versions of Paint Shop Pro).

Any image editing program can be used (See "Paint Shop Pro — an image editor" on page 150.)

The following instructions explain how to create a GIF using Paint Shop Pro Animation.

- 1. Using your Internet browser, log onto the Adaptive Micro Systems Web site at *http://www.adaptivedisplays.com/sample.htm*.
- 2. In the upper right-hand corner of Adaptive's main page, right-click on the *Tell a Friend* graphic and select *Save Picture As*.



- **3.** Save the file as a GIF file to your C:\Program Files\Adaptive Micro Systems\AlphaNET directory.
- **4.** Select *Start>Programs>Paint Shop Pro>Animation Shop*, or open the image editing program you are using.
- 5. Select *File>Open* and select your GIF file. Then click *Open*.
- **6.** Change any colors in the GIF file if they are incompatible with your sign.

Note:If black or white is used in a GIF or BMP file, the sign thinks you want it to turn off those particular LEDs. Try using a different color.

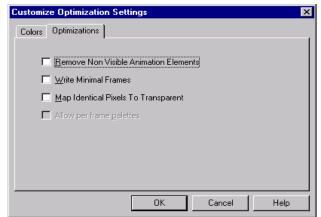
7. Select *Edit*>*Resize Animation* and resize the file to your sign's specifications. Make sure the *Maintain aspect ratio* box is checked, and then click *OK*:

Resize	×
Pigel Size <u>Width </u>	
C Percentage of Original Wight 100 🚍 x Height 100 🚍	
C Actual / Print Size Width 0.344	
Height D.333 Besolution 72 Pixels / inch	
Resize Type Smart size	
Maintain aspect ratio of 2.8333333 to 1	
OK Cancel <u>H</u> elp	

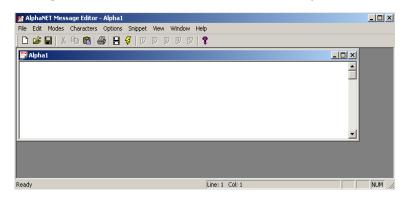
- **8.** Select *File>Save*. Then click the *Customize* button on the *Animation Quality Versus Output Size* window that appears.
 - NOTE: This window appears when you save a file for the first time and then when changes are made to it. However, the settings you enter will become the default settings until you close Paint Shop Pro Animation.
- **9.** On the Colors tab, make sure the settings are as follows:

Customize Optimization Setting	s	×
Colors Optimizations		
Number of Colors:		
256 colors	Greater than 256 colors	
Create palette by		
Optimized Octree	Derowser palette	
Optimized Median Cut	Custom palette Browse	
Standard palette		
- Reduce colors by		
C Ordered Dithering	Nearest Color	
C Error Diffusion	<u></u>	
	OK Cancel Help	

10. On the *Optimizations* tab, uncheck all the boxes and click *OK*.

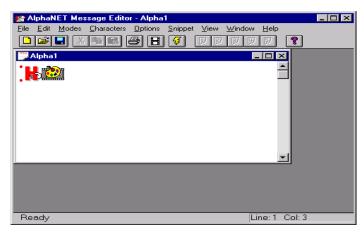


- **11.** Click the *Next* button to cycle through the remaining windows.
- **12.** Select *File>Close* to close your GIF file.
- 13. Next, open *Message Editor* and create a new message.

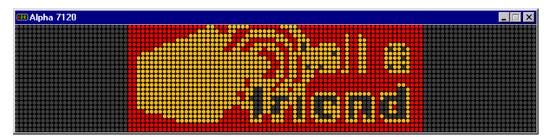


14. Select *Modes*>*Hold*, using the *Fill* line position.

15. Select *Option>Gif*. Then select your GIF file and click *OK*. An icon representing the *Hold* mode and one representing the GIF will appear in your message.



16. Simulate your message to see what it looks like:



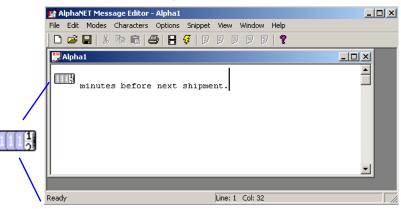
How to edit a counter file

What is a counter file?

A counter file sets up from 1 to 5 numerical counters (counter 1 through counter 5), which can be used for either or both of the following:



Display information in minutes, hours, or days on a sign.

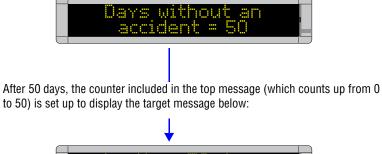


A counter can be placed inside a message. (This one is counting down from 60 minutes.)





Display special messages (target files) on a sign after a set amount of time has passed.



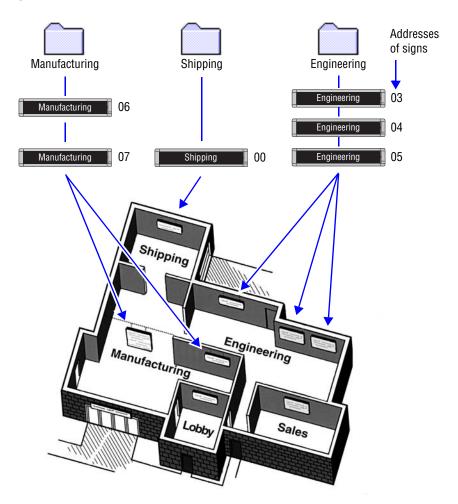


NOTE: The software necessary to use a counter file is included in the standard Alpha® firmware for signs and allows you to program a counter file from your computer. However, the standard Alpha® firmware does not allow you to program a counter file using an infrared remote control (left).



Three examples of how to use counter files

In these examples, we discuss three basic ways of using counters on signs:



- **Example 1** Using a counter in a message on the Shipping sign. Counter 1 will be used to show a message that counts down hours.
- **Example 2** Using a counter in a message and displaying a target file message on the Manufacturing signs. Counter 2 will be used to show a message that counts up days and display a target message when it reaches 50.
- **Example 3** Using a counter to display a target message on the Engineering signs. Counter 2 will be used from Example 2.

Example 1 — Using a counter in a message

In this example, we will end up with a message on the Shipping sign that counts down from 60 minutes over and over again:

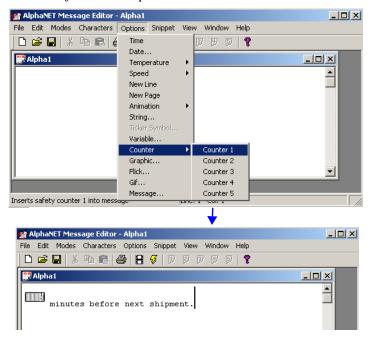
NOTE: The Shipping sign can still display other messages.



1. Open *Message Editor* and create a new message:

😭 AlphaNE	T Message	Editor - A	lpha1									_ 🗆 🗵
File Edit M	10des Char	acters C	ptions	Snippet	View	Window	Help					
] 🗅 😅 🗖	X 🖻	8 8	8	3 P	99	۶.	1 🤋					
🚆 Alpha1											 ×	
											-	
											-1	
,											_	
Ready							5	 Col: 1				NUM

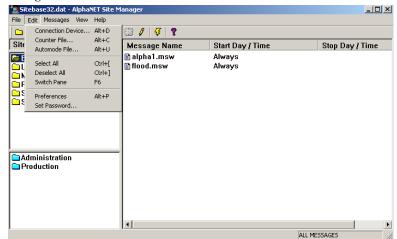
2. Add a counter to the message by selecting *Options>Counter* and then *Counter 1*. Then, after the counter icon, type a space followed by *minutes before next shipment*:



3. Save this counter message as *countshp.msw*:

Save As			<u>? ×</u>
Save in: 🗋	AlphaNET	- 🗲 🔁	📸 🎫 -
25 26 27 28 33 33	36 37 38 39 40 54	57 Gifs Samples Skins Alpha1.msw Alpha2.msw	Flood.msw
File name:	countshp.msw		▶ Save
Save as type:	AlphaNET Msg (*.msw)	•	Cancel

4. After saving the message, close *Message Editor*. Open *Site Manager* and select *Edit>Counter File*:



5. Next, either open an existing counter file (like the default file shown below) or type a new file name (such as *shipping.ctw*):

Open		? ×
Look in: 🧲	AlphaNET	
25 26 27 27 28 33 33 35	36 37 38 39 40 54	C 57 Gifs Samples Skins
File name: Files of type:	default.ctw Counter Files (*.ctw)	Open Cancel

6. When the *Counter Setup* window appears, select the *Counter 1* tab. Then type in the values as shown below:

		Counter Setup -				
	A	Counter 4 Counter 1	Counter 5 Target Files Counter 2 Counter 3			
E	3 ——	🔽 Counter C	Jn C Increment Minutes ▼ ⓒ Decrement			
(Counter Valu Start 60 Target 0 Dec Value 1	Target Files Two Two Three Four Five On Weekends Auto Reload			
			Cancel Apply Help			
ltem		ime	Directions			
	Counter 1–	5	Select <i>Counter 1</i> tab.			
A	A Target Files		This is where a message is assigned to a target file. One to five messages can be displayed on a sign when counter 1 reaches its target value. (No target files are used in this example.)			
	Counter On		Make sure this box is checked for this example.			
В	Increment Decrement		In this example, select <i>Decrement</i> because we want counter 1 to count down, not up.			
-	Minutes Hours Days		Select <i>Minutes</i> because we want counter 1 to count in units of minutes.			
	Counter	Start	Enter <i>60</i> because we want counter 1 to start at 60 minutes and then count down to 0.			
	Counter Values	Target	Enter O.			
	141400	Dec	Enter <i>1</i> because we want counter 1 to count down 1 minute at a time—60, 59, 58, and so on.			
C	Target Files	One–Five	This is where you would select which target file messages to display when counter 1 reaches its target value. (No target files are used in this example, so none are checked.)			
	Counter Run Time	Start TIme Stop Time	In this example, <i>Always</i> is selected because we want counter 1 running continuously. Since <i>Always</i> is selected, <i>Stop Time</i> is not available.			
	On Weeken	ds	Since we do not need our counter running on weekends, this is unchecked.			
D	Auto Reloa	d	This box is checked because we want our counter to count down continuously. If this box was not checked, counter 1 would count down from 60 to 0 just once.			

Table 15: Counter Example 1 — Counter 1 setup

7. Select *OK* after entering the setup information. Double-click the *Shipping* site to open the *Site Editor* window:

	Sitebase32.dat - AlphaNET Site M File Edit Messages View Help	anager	
	🗅 🚅 🗅 学 🗓 🕒 🗈	🖾 🖉 😴	
	Sites / Groups	Message Name	Start Day
Double-click Shipping.	Engineering Lobby Manufacturing R&D Sales Shipping		
+	Administration		
Site Editor	C Droduction	×	
Site Info Sign Info G	roup Info Advanced		
Site Description	1		
Site Name:	Shipping		
Compatibility:	Alpha 1.0 (EZ95)	GB) Capable Editor transmit site	
⊢ Network Config	uration		
Connection De	vice: WaveWare Pager Wireless Com 1		
Phone Number	Cap Code	e 0102000	
🗖 Enable erro	checking		
	OK Cancel	Apply Help	

8. Next, select the *Sign Info* tab and attach the counter file you just created to the Shipping site:

Site Editor	X
Site Info Sign Info Group Info Advanced	
Sign Addresses	Tone on Receipt
Counters	C Single Beep C Three Beeps
Counter File None	C Tune File C Custom Tone
Automode Table	Duration: 2
Automode File None	Repeat: 0
Tune File	Memory
Tune File None	Extended Memory
OK Cancel	Apply Help

After clicking *Counter File*, select the counter file you just edited (in this case, *shipping.ctw*). Then select *OK*.

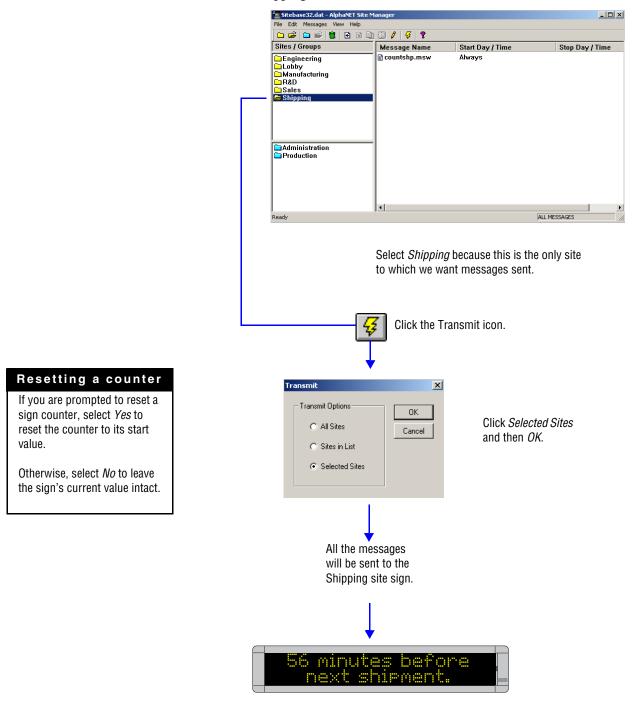
	+			
Open				? ×
File name: shipping.ctw shipping.ctw	Folders: c:\alphanet	NET	OK Cano Non	el
List files of type: Counter files (*.ctw)	Drives:		Netwo	rk
	Ļ			
Editor te Info Sign Info Group Info Ad Sign Addresses Address List: 00 Counters Counter File C:VALPHANET			O Thr O Tur	ne gle Beep ee Beeps
Automode Table			Duration Repeat:	2
Tune File			Memory –	nded Memory
	ок 1	Cancel	Apply	Help
Sele	† ct <i>OK</i> .			

Deleting a counter file

If you want to delete a counter file from a sign, click *Counter File*, click *None*, and then click *OK*. **9.** Add the message that contains counter 1 to the Shipping site:

	ase32.dat - Alph		nager		
File Edit	-	·			
	🗀 学 😈	• •	3 / 4	í ?	
Sites /	Groups		Message	Name	Start Day / Ti
	neering				
	ufacturing				
☐ Sale					
🔁 Ship	ping				
	inistration uction				
Select <i>Shipping</i> . Then click	•••				
1 II.					
			•		
l Ready		J.	·		
•					
Add Messages			? ×		
Look in: 🔄 AlphaNET	•	🗧 🗈 💣 🔳	-	Select the me	ssage
25 36	57	Countshp.m		that contains	-
	Gifs	🗒 Flood.msw		1 (countshp.)	
27 38 28 39	Samples Skins			(oountonp.)	11011).
1 33 1 40	Alpha1.msw			Click OK.	
35 🛄 54	Alpha2.msw			UNCK UK.	
File name:)pen		
Files of type: AlphaNET Msg (*.msw)		- C	ancel		
president of the second			//,		
↓					
•					
🖀 Sitebase32.dat - AlphaNET Site M	anager				
File Edit Messages View Help					
🗅 🥔 🗀 💕 🛅 🕒 🖻 🗎	🕄 🖉 😽	?			
Sites / Groups	Message Na	ame	Start Day	//Time	Stop E
Engineering	countshp.r		Always		
Lobby					
	1 1	-			
🚍 R&D 🔁 Sales	The messag	ge you add	led appea	ars here, after	any
🗲 Shipping	previously	selected m	nessages	. The order in	which the
	P		-	in which they	
	a sign.				
	NOTE: IF VO	u want the	now mo	essage at the s	start of the
Administration					
Production		ne roh exi	sung me	ssage and the	
	🚺 💽 (In	sert Mess	ane) inst	ad of	(add
	۳ 🛄	0011 100000	ugoj mot		lana
	message).				
Ready	•				ALL MESSAGES
					CIDMCC - COMOLO

10. Finally, in order to display the message you just added to the Shipping sign, the message must be transmitted. To do this, select the Shipping site and then the transmit icon:

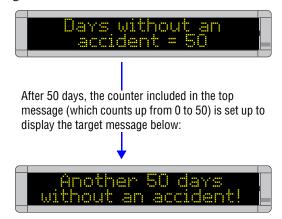


Example 2 — Using a counter in a message and displaying a target file message

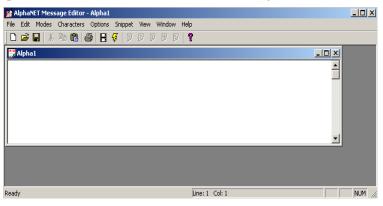
In this example, we will end up with a message on the Manufacturing signs that keeps track of the number of days without an accident.

Also, when 50 days is reached, a message appears on the Manufacturing signs that reads *Another 50 days without an accident!* (this is called a target message.)

NOTE: The Manufacturing signs can still display other messages.



1. Open *Message Editor* and create a new message:



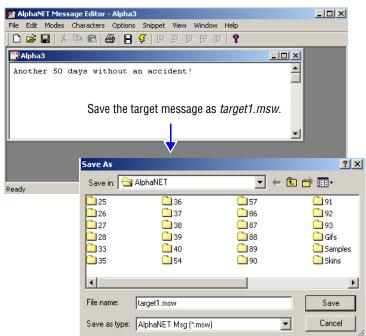
2. In the message window, type *Days without an accident:* and a space. Then add a counter to the message by selecting *Options>Counter>Counter 2*:

🚰 AlphaNET Message Editor	- Alpha1		
File Edit Modes Characters	Options Snippet Vie	w Window Help	
🗋 🖆 🔛 🕺 🛍 💼	∉ Time	0 9 5 7	
🚆 Alpha1	Date		
	Temperature		
Days without an ac	Speed ► New Line		-
	New Line New Page		
	Animation •		
	String		
	Ticker Symbol		
	Variable		-
1	Counter 🕨 🕨	Counter 1	
	Graphic	Counter 2	
	Flick	Counter 3	
	Gif	Counter 4	
/ Inserts safety counter 2 into mes	Message	Counter 5	
<mark>∭AlphaNET Message Edito</mark> <u>F</u> ile <u>E</u> dit <u>M</u> odes <u>C</u> haracters		w <u>W</u> indow <u>H</u> elp	
			?
💭 Alpha1			
Days without an acc	cident:		4
			T
•			

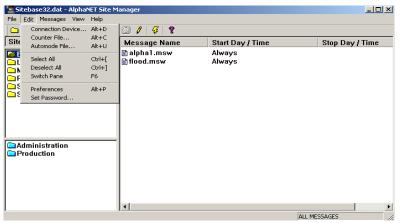
3. Save this counter message as *countman.msw* and close the message:

Save As			<u>? ×</u>
Save in: 🔂	AlphaNET	- + 6	• 🖬 📩
25	2 36	57	91
26	<u></u> 37	<u>)</u> 86	92
27	i 38	i 87	93
28	<u></u> 39	<u>)</u> 88	🚞 Gifs
33	<u></u> 40	<u>)</u> 89	🚞 Samples
35	<u></u> 54	<u>)</u> 90	🚞 Skins
		_	
•			▶
File name:	countmantmsw		Save
Save as type:	AlphaNET Msg (*.msw)	•	Cancel

4. Next, create the target message — the message that will appear when counter 2 reaches 50 days. Then save this message as *target1.msw*:



5. Close *Message Editor*. Open *Site Manager* and select *Edit>Counter File*:



6. Next, either open an existing counter file or type a new file name (such as *target.ctw*) and click *Open*:

		? ×
AlphaNET	-	🗈 💣 🎟 -
i 36	57	91
<u></u> 37	<u></u> 86	92
<u></u> 38	87	93
<u></u> 39	<u></u> 88	🧰 Gifs
<u></u> 40	<u></u> 89	🚞 Samples
<u></u> 54	<u> </u>	🚞 Skins
target.ctw		Open
Counter Files (*.ctw)		Cancel
	37 38 39 40 54	36 57 37 86 38 67 39 88 40 89 54 90

7. When the *Counter Setup* window appears, select the *Counter 2* tab and enter the values shown below:

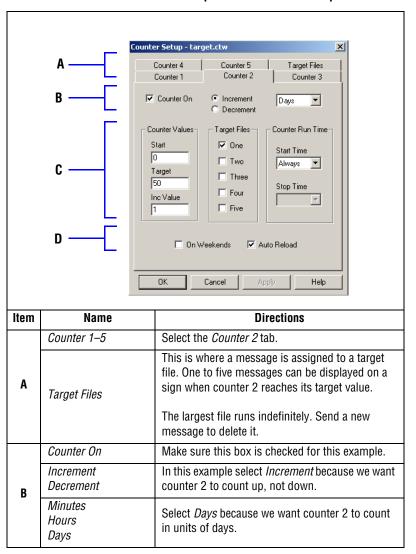


Table 16: Counter Example 2 — Counter 2 setup

	Counter	Start	Enter <i>0</i> because we want counter 2 to start at 0 days and then count up to 50.
C Target Files One- Counter Run Time Stop		Target	Enter <i>50</i> .
		Inc	Enter 1 because we want counter 2 to count up 1 day at a time — 1, 2, 3, and so on.
	One–Five	Check <i>One.</i> This means that one message will appear on the sign after counter 2 has reached its target value.	
	Run	Start Time Stop Time	In this example, <i>Always</i> is selected because we want counter 2 running continuously.
	On Weekends		Since we do not need our counter running on weekends, leave this unchecked.
D	Auto Reload		This box is checked because we want our counter to count continuously. If this box was not checked, counter 2 would count up to 50 just once.

Table 16: Counter Example 2 — Counter 2 setup

8. Next, select the *Target Files* tab and for *Target File 1*, select *Browse* and then the file you created (*target1.msw*):

ounter Setup - ta	rget.ctw	×	
Counter 1 Counter 4	Counter 2 Counter 5	Counter 3	
Target File 1 C:\AlphaNET\target1.msw Browse			
Target File 2Browse			
Target File 3			
Target File 4		Browse	
Target File 5		Browse	
ОК	Cancel Ap	ply Help	

9. After selecting the target file, click *Open*, and then *OK* to close the *Counter Setup* window. Then double-click the Manufacturing site to access the *Site Editor* window:

	Sitebase32.dat - AlphaNET Site Manager			
	File Edit Messages View Help			
	Sites / Groups	Message Name	Start Day / Time	Stop Day / Time
	Engineering Lobby Manufacturing R2D Sales Shipping	🗎 flood.msw	Always	
	Administration Production	1		
	l Ready			ALL MESSAGES
5ite Editor	Double-click <i>Manufacturi</i>	.9.	X	
Site Info	Sign Info Group Info Advanced			
	Site Description			
9	Site Name: Manufacturing	Full Color (RGB) Cap		
	,	🔽 Use as an Editor tran	nsmit site	
I	Network Configuration			
C	Connection Device: Local Wired Com 2		•	
F	Phone Number:	Cap Code:		
Г	Enable error checking			
	ОК	Cancel Apply	Help	

Deleting a counter file

If you want to delete a counter file from a sign, click *Counter File*, click *None*, and then click *OK*.

10. Next, select the <i>Sign Info</i> tab and attach the counter file you just created to the Manufacturing site:				
Site Editor	X			
Site Info Sign Info Group Info Advanced Sign Addresses Address List: 05,07	Tone on Receipt © None © Single Beep			
Counters	C Three Beeps C Tune File C Custom Tone			
Automode Table Automode File None	Duration: 2 Repeat: 0			
Tune File	Memory Extended Memory			
OK Cancel	Apply Help			

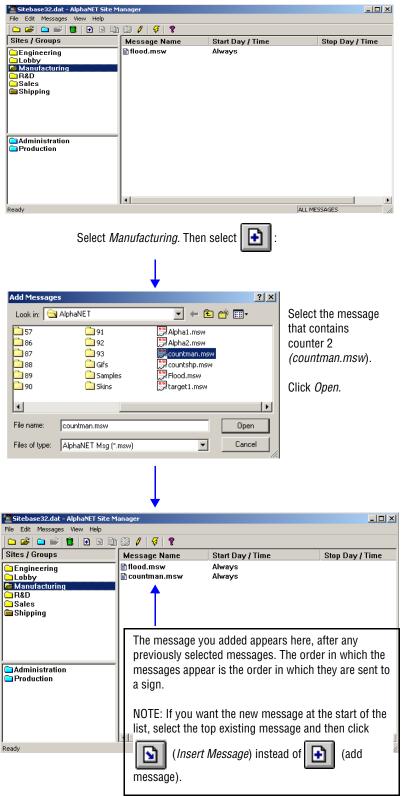
After clicking *Counter File*, select the counter file you just edited (in this case, *target.ctw.*) Then select *OK*.

Open		<u>? ×</u>
File name: target.ctw shipping.ctw	Folders: c:\alphanet	OK Cancel None
List files of type: Counter files (*.ctw)	Drives:	Network

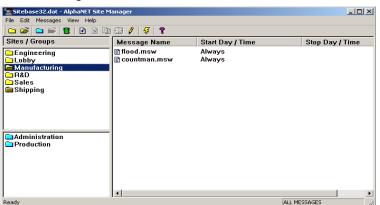
ite Editor	×
Site Info Sign Info Group Info Advanced	
Sign Addresses Address List: 06, 07	Tone on Receipt None Single Beep Three Beeps
Counters C:\AlphaNET\target.ctw	C Tune File C Custom Tone
Automode Table	Duration: 2 Repeat: 0
Tune File	Memory
OK Cancel	Apply Help
↑	

Select OK.

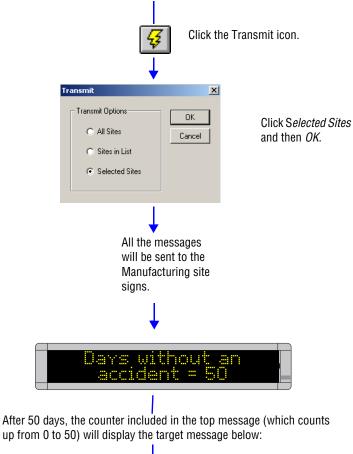
11. Add the message that contains counter 2 to the Manufacturing site:



12. Finally, in order to display the message you just added, it must be transmitted to the Manufacturing signs. To do this, select the Manufacturing site and then the Transmit icon:



Select *Manufacturing* because this is the only site to which we want messages sent.





Resetting a counter

If you are prompted to reset a sign counter, select *Yes* to reset the counter to its start value.

Otherwise, select *No* to leave the sign's current value intact.

Example 3 — Using a counter to display just a target message

HINT

This example is nearly identical to Example 2.

In Example 2, the counter was displayed as well as a target message.

In Example 3, only the target message will be displayed. The counter will just count.

In this example, we will use one of the five counters (in this case, counter 3) to display the message *Another 100 hours of safe operation!* When counter 3 reaches 100 hours, the message will appear on all the signs in the Engineering site. (This site was created in the previous section "How to change a sign's serial address" on page 15.)

NOTE: The Engineering signs can still display other messages.



1. Open *Message Editor* and create a new message:



2. Next, create the target message — the message that will appear when counter 3 reaches 100 hours. Then save this message as *target2.msw*:

Alpha1	ters Options	Snippet View Window 덎 민 만 한 번 1			
Alpha1	3 5 8 ·	<mark>\$</mark> D B B B B	9 ?		
Another 100 hour					
	Another 100 hours of safe operation!				
	Save As				?
J	Save in: 🔂	AlphaNET	•	F 🗈 💣	•
	25	2 36	5 7	(91
	26	<u></u> 37	86	ļ,	92
	27	38	87	ļ	93
Ready	28	39	88	ļ	Gifs
	33	40 54	🛄 89		Samples
	3 5	54	90		<u> </u>
	•				
ve the target	File name:	target2.msw			Save
get2.msw.	Save as type:	AlphaNET Msg (*.msw)		•	Cancel

3. After saving the target message, close *Message Editor*. Open *Site Manager* and select *Edit>Counter File*:

1 Si	Sitebase32.dat - AlphaNET Site Manager					
File	Edit Messages View	Help				
	Connection Device Alt+D Counter File Alt+C Automode File Alt+U		🕄 🖊 😴 🎖			
Site			Message Name	Start Day / Time	Sto	
		Ctrl+[Ctrl+] F6	🖹 alpha1.msw 🖹 flood.msw	Always Always		
E F	Preferences	Alt+P				

4. Next, either open an existing counter file (like the default file shown below) or type a new file name (like *engineer.ctw*):

Open			? ×
Look in: 🧲	AlphaNET		🗈 💣 🎟 -
25	i 36	57	91
26	<u></u> 37	<u></u> 86	92
27	<u></u> 38	<u></u> 87	93
28	<u></u> 39	🚞 88	🧰 Gifs
33	i 40	<u>)</u> 89	🚞 Samples
35	<u></u> 54	<u>)</u> 90	🚞 Skins
•			Þ
File name:	engineer.ctw		Open
Files of type:	Counter Files (*.ctw)	-	Cancel

5. When the *Counter Setup* window appears, select the *Counter 3* tab and enter the values shown below:

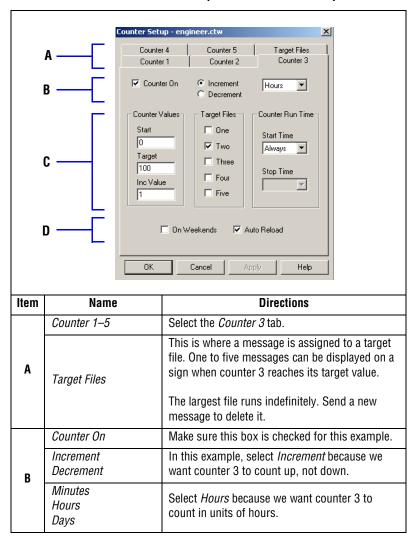


Table 17: Counter Example 3 — Counter 3 setup

Counter Values In C Target Files Counter Run Time	Quantan	Start	Enter <i>0</i> because we want counter 3 to start at 0 hours and then count up to 100.
	000	Target	Enter 100.
	Failuee	Inc	Enter <i>1</i> because we want counter 3 to count up 1 hour at a time—1, 2, 3, and so on.
	One–Five	Check <i>Two</i> . This means that one message will appear on the sign after counter 3 has reached its target value.	
			In this example, <i>Always</i> is selected because we want counter 3 running continuously.
	On Weekends		Since we do not need our counter running on weekends, leave this unchecked.
D	Auto Reloa	d	This box is checked because we want our counter to count down continuously. If this box was not checked, counter 3 would count up to 100 just once.

Table 17: Counter Example 3 — Counter 3 setup

6. Next, select *Target Files*. For *Target File 1*, select *Browse* and then select the file you created called *target2.msw*:

-				
Counter Setup - engi	ineer.ctw	X		
		× .		
Counter 1	Counter 2	Counter 3		
Counter 4	Counter 5	Target Files		
Target File 1				
C:\AlphaNET\target2.msw Browse				
Target File 2				
		Browse		
		5104/36		

7. After selecting the target file, click *OK*. Then double-click the *Engineering* site to access the *Site Editor* window:

	🔁 Sitebase32.dat - AlphaNET Sit	e Manager
	File Edit Messages View Help	
	🔁 🗃 🚔 🖬 👘 🖻	🗈 83 🖊 😽 🤋
Double-click	Sites / Groups	Message Name Star
Engineering.	Engineering Lobby Manufacturing R&D Sales Shipping	∎ alpha1.msw Alwa ∄flood.msw Alwa
Site Editor		×
Site Info Sign	Info Group Info Advanced	
Site De	escription	
Site Na	me: Engineering	
Compat	ibility: Alpha 1.0 (EZ95) 🔽 🗐 Full Color (F	RGB) Capable Editor transmit site
- Networ	k Configuration	
Connec	tion Device: Local Wired Com 2	<u> </u>
Phone	Number: Cap Code	e:
💌 Ena	ble error checking	

8. Next, select *Sign Info* and attach the counter file you just created to the Engineering site:

5ite Editor	×
Site Info Sign Info Group Info Advanced	
Sign Addresses Address List: 03-05	Tone on Receipt
Counters	C Three Beeps
Counter File	C Tune File C Custom Tone
Automode Table	Duration: 2
Automode File None	Repeat: 0
Tune File	Memory
Tune File	Extended Memory
OK Cancel	Apply Help

After clicking *Counter File*, select the counter file you just edited (in this case, *engineer.ctw*). Then select *OK*.

		<u>? ×</u>
File name: engineer.ctw	Folders: c:\alphanet	
engineer.ctw	C (\ AlphaNET 25 26 27 28	Cancel
List files of type: Counter files (*.ctw)	Drives:	Network
nfo Sign Info Group Info Ad	Ydriood	Tone on Receipt
		C Single Beep C Three Beeps
ounters	ngineer.ctw	
unters Counter File C:\AlphaNET\e utomode Table	ingineer.ctw	C Three Beeps C Tune File
ounters Counter File	ingineer.ctw	C Three Beeps C Tune File C Custom Tone
unters Counter File C:\AlphaNET\e utomode Table	ingineer.ctw	© Three Beeps © Tune File © Custom Tone Duration: 2

Deleting a counter file

If you want to delete a counter file from a sign, click *Counter File*, click *None*, and then click *OK*.

How to use real-time data in a message

String Variables + ActiveX® = real-time data

Data from external sources (for example, Microsoft® Excel, Access, and Visual Basic® software) can be displayed on Alpha® signs by using two features included in AlphaNET[™] 3.0 software:

- String variables
- Alpha® String Update Control (an ActiveX® component)

A variable in the AlphaNETTM 3.0 software represents real-time data that can change (for example, temperature or production rates, date, or time). Variables can be put into messages.

The value of a variable can be changed using the Alpha® String Update Control. Because this is an ActiveX® control, it can be used with a variety of ActiveX®-compatible applications, such as Microsoft® Excel, Access, and Visual Basic® software.

NOTE: Besides using the Alpha® String Update Control, you can also write your own application to update variables. For more information, see the **Alpha® Sign Communications Protocol** manual.

Real-time data example

Create sign memory configurations using Site Manager

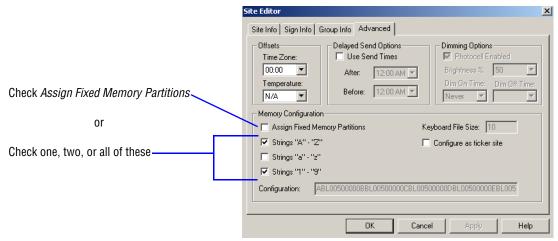
1. In *Site Manager*, double-click the site for the sign which will use string variables. Then click the *Advanced* tab.

🖀 Sitebase32.dat - Alpl	haNET Site Manager		
File Edit Messages Vie	w Help		
🗅 📽 🗅 📽 🚺	🔁 🗈 🖹 🕄 🖊 😽 🤋		
Sites / Groups	Message Name	Start Day / Time	Stop Day / Time
Canal Content in the second se	flood.msw	Always	
	Site Editor		×
	Site Info Sign Info Group Info	Advanced	
Administration	Time Zone: L 00:00 Af Temperature:	Ise Send Times	imming Options Photocell Enabled Irightness %: 50 Vim On Time: Never
<u> </u>	Assign Fixed Memory Parti	tions Kevboar	d File Size: 10
Ready	Strings "A" - "Z" Strings "A" - "Z" Strings "a" - "z" Strings "1" - "3" Configuration:		igure as ticker site
	[OK Cancel	Apply Help

HINT

The AlphaNET™ 3.0 software CD ROM contains examples on using the Alpha® String Update Control.

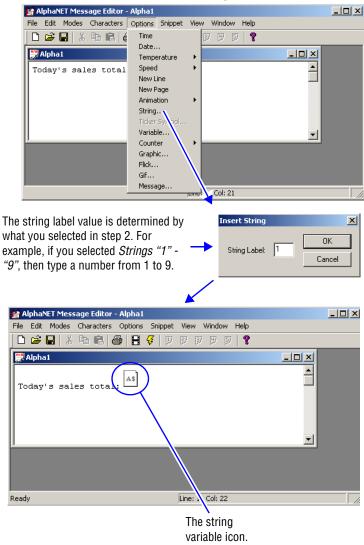
- **2.** Create a sign memory configuration by checking either:
 - Assign Fixed Memory Partitions Check this to assign your own sign memory configuration in the Configuration box. (For detailed information, see the Memory Configuration examples in "Appendix G: Protocol Examples" of the Alpha® Sign Communications Protocol manual.)
 - Strings "A" "Z", Strings "a" "z", Strings "1" "9" Check one, two, or all three of these to create a sign memory configuration in the *Configuration* box. For example, checking *Strings* "A" - "Z" would set up 26 string files names "A" through "Z". These files could then be used by the Alpha® String Update Control. (Checking *Strings* "a" - "z" would set up an additional 26 strings, and checking *Strings* "1" - "9" would add another 9 strings.)



Create a message with a string variable using Message Editor

3. In Message Editor, create a new message by selecting File>New: 🚰 AlphaNET Message Editor - Alpha1 File Edit Modes Characters Options Snippet View Window Help 🗅 😅 🖬 | X 🖻 🛍 🎒 🚼 🞸 | D 9 9 9 9 9 9 🚆 Alpha 1 4. Type Today's sales total: 🎼 AlphaNET Message Editor - Alpha1 _ 🗆 × File Edit Modes Characters Options Snippet View Window Help 🗅 😅 🖬 👗 🐴 💼 🎒 🔠 🐓 🛛 🕫 🖉 🔗 🔗 🚆 Alpha1 <u>- 0 ×</u> Today's sales total: ٠

5. Select *Options>String* to insert a string variable into the message:



Update the string variable using the ActiveX® control

6. Use the Alpha® String Update Control (the ActiveX® component of AlphaNETTM 3.0 software) to update the message's string variable.

Following is a description of the available methods and properties of this ActiveX[®] control:

InitializeSyntax:AlphaStringUpdateCtrl.InitializeParameters:noneRemarks:Method must be called prior to calling any other method of this control. This method opens a COM port or creates a socket connection to the display.UpdateStringSyntax:AlphaStringUpdateCtrl.UpdateString("String Label", Value, Color, Flash)Parameters:* String Label — String. One character only. (In the previous example, the String Label is 1.)Value* String Label — String. One character only. (In the previous example, the String Label is 1.)Value* Off. I = on.Parameters:* Flash — Byte. 0 = off, 1 = on.This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.NetworkAddressType:StringValues:0 = Serial connection, 1 = TCP/IP connection TCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28600, 38400, 56000, 115200, 128000, 256000SerialDataBltsType:ByteValues:1 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialAddressType:IntegerValues:1 or 2Serial AddressType:	METHODS			
InitializeMethod must be called prior to calling any other method of this control. This method opens a COM port or creates a socket connection to the display.Syntax:AlphaStringUpdateCtrl.UpdateString("String Label", Value, Color, Flash)Parameters:• String Label — String. One character only. (In the previous example, the String Label is 1.)Value• String Label — String. One character only. (In the previous example, the String Label is 1.)• Value• String Label — String. This is the value to be passed and displayed. • Color — Integer. 1 = Red, 2 = Green, 3 = Amber. • Flash — Byte. 0 = off, 1 = on.• Flash — Byte. 0 = off, 1 = on.This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.ConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)Type:IntegerSerialBaudRateType:ByteValues:1 10, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:ByteValues:1 through 16SerialParity:Type:StringValues:1 through 8SerialStopBitsType:None, Even, Odd, Mark, SpaceSerialAddressType:IntegerValues:1 or 2 </td <td></td> <td>Syntax:</td> <td>AlphaStringUpdateCtrl.Initialize</td>		Syntax:	AlphaStringUpdateCtrl.Initialize	
Remarks:other method of this control. This method opens a COM port or creates a socket connection to the display.Syntax:AlphaStringUpdateCtrl.UpdateString("String Label", Value, Color, Flash)VpdateStringParameters:• String Label — String. One character only. (In the previous example, the String Label is 1.)Parameters:• Value — String. This is the value to be passed and displayed. • Color — Integer. 1 = Red, 2 = Green, 3 = Amber. • Flash — Byte. 0 = off, 1 = on.This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.ConnectModeType:ByteNetworkAddressType:StringNetworkAddressType:StringNetworkPortType:IntegerValues:3001 (default)Type:IntegerValues:10, 300, 600, 1200, 4800, 9600, 14400, 19200, 28600, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:ByteValues:1 through 16SerialParity:Type:StringValues:4 through 8SerialStopBitsType:StringValues:1 or 2Serial AddressType:Values:1 or 2Serial AddressType:Values:1 or 2Serial AddressType:Values:1 or 2Serial AddressType:Values:1 or 2Values:1 or 2Values:1 or 2		Parameters:	none	
Sylitax:Label", Value, Color, Flash)UpdateString- String Label — String. One character only. (In the previous example, the String Label is 1.)Parameters:· Value — String. This is the value to be passed and displayed. • Color — Integer. 1 = Red, 2 = Green, 3 = Amber. • Flash — Byte. 0 = off, 1 = on.This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.ConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressType:StringNetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:9yteValues:1 through 16SerialParity:Type:StringValues:1 through 8SerialStopBitsType:StringValues:Type:StringSerialAddressType:1 to 2SerialAddressType:StringValues:1 through 8SerialStopBitsType:StringValues:1 to 2Serial AddressType:Values:1 to 2Serial AddressType:Values:1 to 2Serial AddressType:Values:1 to 2Values:1 to 2Values:1 to 2 <tr <td="">Val</tr>	Initialize	Remarks:	other method of this control. This method opens a COM port or creates a socket	
UpdateStringParameters:(In the previous example, the String Label is 1.)Parameters:· Value — String. This is the value to be passed and displayed.· Color — Integer. 1 = Red, 2 = Green, 3 = Amber. · Flash — Byte. 0 = off, 1 = on.Remarks:This method will pass any value to the designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.ConnectModeType:ByteNetworkAddressType:StringNetworkAddressType:StringNetworkPortType:IntegerValues:3001 (default)NetworkPortType:IntegerSerialBaudRateType:ByteValues:10, 300, 600, 1200, 4800, 9600, 14400, 19200, 28600, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialParity:Type:StringSerialStopBitsType:StringSerial AddressType:StringSerial AddressType:IntegerSerialAddressType:ByteValues:1 through 16SerialParity:Type:ByteValues:1 through 8Serial AddressType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)		Syntax:		
Remarks:designated string. The Color parameter will override any color definition set by the message itself. The Flash parameter will only work in the Hold mode.PROPERTIESConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressType:StringNetworkPortType:IntegerValues:3001 (default)NetworkPortType:IntegerSerialBaudRateType:IntegerSerialComPortType:ByteValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:ByteSerialParity:Type:ByteValues:4 through 8SerialStopBitsType:StringValues:1 or 2Serial AddressType:Integer (use 2 digits)	UpdateString	Parameters:	 (In the previous example, the <i>String Label</i> is 1.) <i>Value</i> — String. This is the value to be passed and displayed. <i>Color</i> — Integer. 1 = Red, 2 = Green, 3 = Amber. 	
ConnectModeType:ByteValues:0 = Serial connection, 1 = TCP/IP connectionNetworkAddressType:StringNetworkPortValues:TCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialComPortType:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:StringSerialParity:Type:StringValues:1 through 8SerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)		Remarks:	designated string. The <i>Color</i> parameter will override any color definition set by the message itself. The <i>Flash</i> parameter will only	
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ConnectModeValues:0Serial connection, 1 = TCP/IP connectionValues:Type:StringNetworkAddressValues:TCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)SerialBaudRateType:IntegerSerialComPortType:IntegerSerialDataBitsType:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialDataBitsType:ByteValues:1 through 16SerialParity:Type:StringValues:4 through 8SerialStopBitsType:StringSerialAddressType:StringSerialAddressType:It or 2SerialAddressType:Integer (use 2 digits)		Type:		
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NetworkAddressTCP/IP address of the network adapter. (Only applicable to a TCP/IP connection.)NetworkPortType:IntegerValues:3001 (default)NetworkPortType:IntegerSerialBaudRateType:IntegerSerialBaudRateValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)			· ·	
NetworkPortValues:3001 (default)Values:3001 (default)SerialBaudRateType:Values:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:Values:1 through 16SerialDataBitsType:Values:4 through 8SerialParity:Values:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:Serial AddressType:Serial Address <td>NetworkAddress</td> <td></td> <td>TCP/IP address of the network adapter. (Only</td>	NetworkAddress		TCP/IP address of the network adapter. (Only	
Values:3001 (default)SerialBaudRateType:IntegerValues:110, 300, 600, 1200, 4800, 9600, 14400, 19200, 28800, 38400, 56000, 115200, 128000, 256000SerialComPortType:ByteValues:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Serial AddressType:Values:1 or 2Serial AddressType:Values:1 or 2Serial AddressType:Values:1 or 2Serial AddressType:Serial Serial AddressType:Serial Serial Serial Serial	NotworkDort	Туре:	Integer	
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SerialComPortValues:1 through 16Values:1 through 16SerialDataBitsType:Values:4 through 8SerialParity:Type:Values:None, Even, Odd, Mark, SpaceSerialStopBitsType:Values:1 or 2Serial AddressType:Integer (use 2 digits)	SerialBaudRate	Values:	19200, 28800, 38400, 56000, 115200,	
Values:1 through 16SerialDataBitsType:ByteValues:4 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)	SerialComPort	Туре:	Byte	
SerialDataBits Values: 4 through 8 Values: 4 through 8 SerialParity: Type: String Values: None, Even, Odd, Mark, Space SerialStopBits Type: Byte Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	JEHAIUUIIIFUIL	Values:	1 through 16	
Values:4 through 8SerialParity:Type:StringValues:None, Even, Odd, Mark, SpaceSerialStopBitsType:ByteValues:1 or 2Serial AddressType:Integer (use 2 digits)	SarialDataRite	Туре:	Byte	
SerialParity: Values: None, Even, Odd, Mark, Space SerialStopBits Type: Byte Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	σσπαισαίασιιδ	Values:	4 through 8	
Values: None, Even, Odd, Mark, Space SerialStopBits Type: Byte Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	SorialParity	Туре:	String	
Serial StopBits Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	ochair allty.	Values:	None, Even, Odd, Mark, Space	
Values: 1 or 2 Serial Address Type: Integer (use 2 digits)	SarialStonBite	Туре:	Byte	
Serial Address	σεπαισισμοπισ	Values:	1 or 2	
Values: 00 (default)	Serial Address	Туре:	Integer (use 2 digits)	
		Values:	00 (default)	

Table 18: Alpha ${f B}$ String Update Control Methods & Properties

How to create and use a custom automode sequence

The message mode called *Automode* is the default mode used if no other mode is selected in a message. It displays the message with all the other modes provided with AlphaNETTM 3.0 software. (For descriptions of the modes, see "Appendix B — Modes available on signs" on page 137.)

A custom automode sequence can be created for each sign site.

You can set what modes automode will use by doing the following:

Creating or editing an Automode sequence

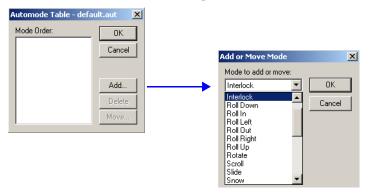
1. In *Site Manager*, choose *Edit>Automode File*:

Sit	ebase32.dat - Alphat	NET Site M	anager		
File	Edit Messages View	Help			
	Connection Device	Alt+D	🕄 🖊 😴 🎖		
Site	Counter File	Alt+C	Message Name	Start Day / Time	S
COL	Automode File	Alt+U	flood.msw	Always	
	Select All	Ctrl+[🖹 alpha2.msw	Always	
Ξì	Deselect All	Ctrl+]		Aindys	
ΩF	Switch Pane	F6			
	Preferences	Alt+P			
<u>ع</u>	Set Password				
L =					

2. Accept the name of *default.aut* for the file, choose an existing file if there is one, or type in a different name for a new file to use. Then click *Open*.

Open			<u>? ×</u>
Look in: 🔂	AlphaNET	- +	🗈 💣 🎟 -
25	3 6	57	91
26	<u></u> 37	<u>)</u> 86	92
27	<u></u> 38	<u></u> 87	93
28	<u></u> 39	🚞 88	🚞 Gifs
33	i 40	<u>)</u> 89	🚞 Samples
35	<u></u> 54	<u>)</u> 90	🚞 Skins
•)
File name:	default.aut		Open
Files of type:	Automode Files (*.aut)		Cancel

3. Click *Add*. Then select the *Interlock* > *OK* to add the Interlock mode to our custom automode sequence:



4. To add another mode to our custom automode sequence, click *Add* again. Then select another mode and click *OK*.

•			
Automode Table - defai	ılt.aut 🔀		
Mode Order:	OK Cancel Add Delete Move Add or Move Mode Mode to add or move: Scroll Scroll Before mode: Interlock [move to end]	OK Cancel	
		Automode Table - de Mode Order: Interlock Scroll	fault.aut X OK Cancel Add Delete Move

NOTE: The order of the modes can be changed using *Move*. Modes can also be added or deleted using *Add* and *Delete*.

Using a custom Automode sequence

1. Using *Site Editor*, double-click the site that is to have the custom automode. Select the *Site Info* tab and choose *Alpha 2.0* for *Compatibility*.

Site Editor	X
Site Info Sign Info Group Info Advanced	
Site Description	
Site Name: Engineering	
Compatibility: Alpha 2.0 Full Color (RGB) Capable Use as an Editor transmit site	
Network Configuration	
Connection Device: Local Wired Com 2	
Phone Number: Cap Code:	
Enable error checking	
OK Cancel Apply Help	

2. \mathbf{S} elect the Sign Info tab. Then click Automode File and select a custom automode file:

	Site Info Sign Info Group Info Advanced
	Sign Addresses
	Address List: 03-05
	C Single Beep
	Counters Contract Three Beeps
	Counter File None C Custom Tone
the	
setting,	Automode Table Duration: 2
<i>ile</i> , click	Automode File None Repeat: 0
lick <i>OK</i> .	
	Tune File
	Tune File None Extended Memory
	OK Cancel Apply Help
	OK Cancel Apply Help
Open	?×
File name:	Folders: OK Messages sent to
*.aut	c:\alphanet Cancel Site will now use t
default.au	ut 🔄 🗁 🗠 🛋 🔤 custom automode
	ALPHANET S None
	💼 26
List files of	
Automode	e files (*.aut) 🔽 📄 c: 💽 Network
Site Editor	×
Site Info	Sign Info Group Info Advanced
Site Info Sign Av	Sign Info Group Info Advanced
Site Info	Sign Info Group Info Advanced ddresses Tone on Receipt
Site Info Sign Av	Sign Info Group Info Advanced ddresses ss List: 0305 ors Single Beep C Three Beeps
Site Info Sign Ar Addres Counte	Sign Info Group Info Advanced ddresses ss List: DBDE C Single Beep cr Single Beep C Three Beeps C Tune File
Site Info Sign Ar Addres Counte	Sign Info Group Info Advanced ddresses ss List: 0305 ors Single Beep C Three Beeps
Site Info Sign Ar Addres Counte Count	Sign Info Group Info Advanced ddresses ss List: DBDE C Single Beep cr Single Beep C Three Beeps C Tune File
Site Info Sign Ar Addres Counte Counte Counte	Sign Info Group Info Advanced ddresses ss List: 0305 ors ter File C:VAlphaNET\engineer.ctw odd Table Duration: 2
Site Info Sign Ar Addres Counte Counte Counte	Sign Info Group Info Advanced ddresses ss List: DBOS ers ter File C:\AlphaNET\engineer.ctw ode Table Duration: 2
Site Info Sign Ar Addres Counte Counte Counte	Sign Info Group Info Advanced ddresses ss List: DBOS ers ter File C:\AlphaNET\engineer.ctw ode Table ode File None Duration: 2 Repeat: 0
Site Info Sign Au Addres Counte Counte Autome Autome	Sign Info Group Info Advanced ddresses Tone on Receipt ss List: 03.05
Site Info Sign Au Addres Counte Counte Autome Autome	Sign Info Group Info Advanced ddresses Tone on Receipt ss List: 03.05
Site Info Sign Au Addres Counte Counte Autome Autome	Sign Info Group Info Advanced ddresses ss List: DBOG ars ter File [C:VAlphaNET\engineer.ctw] ode Table ode File None Tile Memory File None Duration: 2 Repeat: 0 Memory File Memory
Site Info Sign Au Addres Counte Counte Autome Autome	Sign Info Group Info Advanced ddresses Tone on Receipt ss List: 03.05

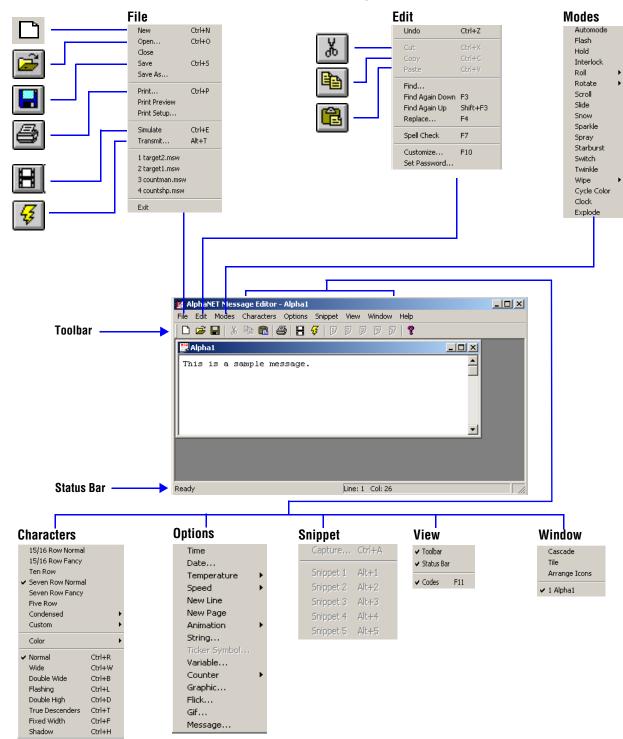
To revert ba default auto click Autom None, and th How to create and use a custom automode sequence

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Message Editor is used to create messages for signs. Text, graphics, and animations (or flicks) can be used in messages. See Chapter 3 for detailed instructions on using *Message Editor*.



N	lenu ltem	Description
	New	Opens a new message window.
	Open	Opens an existing message file.
	Close	Closes the message window.
	Save	Saves a message.
	Save As	Saves the current message under a different name.
	Print	Prints a message.
	Print Preview	Previews a message (in print form).
	Print Setup	Change printers, page size, and so on.
	Simulate	Previews a message (in display form).
File	Transmit	Sends a message to either every site or some sites: This sends a message to every site.
	1 File name 1 2 File name 2 3 File name 3 4 File name 4	A list of recent message file names which can be selected and opened.
	Exit	Quits Message Editor.

	Undo	If highlighted, reverses the last action performed.
	Cut	Deletes selected text or graphics from a message and places it on the clipboard.
	Сору	Copies selected text or graphics from a message and places it on the clipboard.
	Paste	Places text or graphics on the clipboard at the current cursor position in a message.
Edit	Find	
	Find Again Down	Locates a word or phrase in a message.
	Find Again Up	
	Replace	Replaces text in a message with text of your choice.
	Spell Check	Verifies the text in a message is spelled correctly.

Me	enu Item	Description
Edit (continued)	Customize	Sets the availability of <i>Message Editor</i> drop-down menu options, whether text or pictures will appear for modes, characters, and options, and the number of space to insert for a tab setting. The type of sign selected here dictates the options available in the drop-down menus. Customize Customize C
	Set Password	Allows you to password-protect Message Editor. Set Password Old Password: Old Password: Cancel Verify: Cancel You will be prompted for this password the next time you open Message Editor.

	Automode	The default mode. If no other mode is selected, a message will appear in automode. Automode cycles through a list of all other modes. The list of modes and their sequence in the automode cycle can be customized as needed.
	Flash	Flashes message.
Modes	Hold	Holds message for several seconds.
(For more information, see	Interlock	Alternating rows of dots enter from each end of a sign and interlock a message into the center of the sign.
"Using modes to	Roll	Rolls the previous message off the sign while rolling the new message on.
change the look of	Rotate	Rotates a message from the right to the left horizontally across a sign.
a message" on page 51.)	Scroll	Moves a message up one line at a time. The previous message is pushed up.
page er.)	Slide	A message moves onto the sign from right to left, one character at a time.
NOTE: Some	Snow	The new message snows over and erases the current message.
modes may not be available on a sign.	Sparkle	The new message sparkles onto the sign over the current message.
See "Appendix B —	Spray	A message sprays across the sign from right to left, one character at a time.
Modes available on signs" on	Starburst	Random starbursts explode a message onto a sign.
page 137.	Switch	Alternating characters of a message slide off a sign in different directions (first character slides up, the next down, and so on). New characters appear in the same manner.
	Twinkle	A message appears with a twinkling effect.
	Wipe	The new message is wiped over the current message.

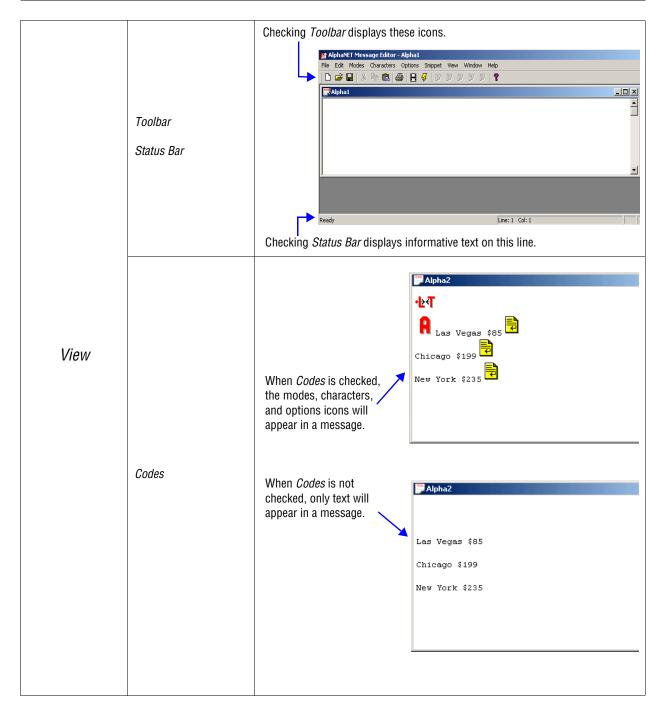
Me	enu Item	Description
	Cycle Color	Cascades colors through the message from the bottom up.
	Clock	Wipes information on and off the sign as if a second hand were sweeping around it.
	Explode	Rolls information from the center of the sign and out in all four directions at once.

Characters	15/16 Row Normal 15/16 Row Fancy Ten Row Seven Row Normal Seven Row Fancy Five Row	The height of text in rows. For example, <i>Seven Row Normal</i> (or <i>Fancy</i>) text is 7 rows tall on a sign. See "Text comes in four basic sizes" on page 148.
(For more information, see	Condensed	Allows selection of <i>15/16 Row, Ten Row, Seven Row,</i> or <i>Five Row</i> in a condensed format.
"Using characters to change the look of a message" on page 54.)	Custom	Allows selection of <i>15/16 Row</i> , T <i>en Row</i> , Seven Row, or Five Row in a customized format. Custom fonts must be installed in the sign's memory outside of AlphaNET [™] 3.0 software.
NOTE: Some characters may not	Color	Allows selection of multiple colors if you have a multicolor sign. If no color is selected, then autocolor is set. In this case, the available colors are randomly displayed.
be available on a	Normal	The default setting for characters.
sign. See "Appendix C —	Wide	Text is displayed in bold characters.
Character fonts and	Double Wide	Text is displayed in very bold characters.
colors available on signs" on	Flashing	Allows individual or many characters to flash on and off.
page 139.	Double High	Doubles the selected character height
	True Descenders	When checked, the lower (or descender) part of letters such as j, g, and q are displayed on a sign.
	Fixed Width	When checked, each character takes up a fixed width like typewriter text. Otherwise, text is displayed proportionally with varying widths.
	Shadow	Allows selection of the shadow color for the message characters.

Me	nu Item	Description
		Inserts the time into a message.
	Time	NOTE: The time is based on the time stored in your computer. If your computer's clock is incorrect, then the time displayed on a sign will also be incorrect.
		Inserts the date into a message. A number of formats are available:
		Insert Date
Options Date Options Some options may not be available on a sign. See "Appendix D — Display Options available on signs" on page 140. Temperature Inserts the current temperature in either Fahrenheit NOTE: This option is only available on the 790i, outdoor signs. Speed The Speed menu item displays 5 speeds and a No I determines how fast messages are displayed on a s next message. Speed 1 is the slowest and Speed 5 is the fastest. Use No Hold if you want your messages displayed a snext message. New Line Forces a line break. Use New Line in place of a carr text to appear on a new line. New Page Acts as a page break.	Date	Image: MM/DD/YY Image: DD/MM/YY Image: DD/MM/YY Image: MM/DD/YY Image: DD/MM/YY Image: DD/MM/YY Image: DD/MM/YY Image: DD/M/YY Image: DD/MM/YY Image: DD/M/YY Image: DD/M/YY Image: DD/M/YY Image: DD/M/YY<
	Temperature	
	New Line	Forces a line break. Use <i>New Line</i> in place of a carriage return when you want text to appear on a new line.
	New Page	Acts as a page break.
	Animation	Preset animations that can be displayed on most signs. For example, selecting <i>Cherry Bomb</i> displays a firecracker with a burning fuse. When the fuse burns down, the bomb explodes.
	String	Inserts a text string in a message. See "How to use real-time data in a message" on page 103.
	Ticker Symbol	Inserts stock market symbols into a message. Future use.

Me	nu Item	Description
Options (continued) NOTE: Some options may not be available on a sign. See "Appendix D — Display Options available on signs" on page 140.	variable	Description A variable does not stand for anything specific until a message is transmitted. For example, if you run a food shop which features a daily special, then a variable is an easy way to change your special: First, a variable called <i>Today's special</i> is placed at the start of a message: Variable Name: OK Variable Name: OK Today's special Cancel Next, a second variable called <i>Special price</i> is placed at the end of the message: Variable Name: OK Variable Name: OK Today's special price Cancel Next, a second variable called Special price is placed at the end of the message: Variable Name: OK Special price Cancel The message looks like this: OK Finally, each time the message is transmitted, you will be prompted to enter text for both variables: Image: Start St
		Chili Context - transmit.\$\$\$: Today's special is on sale for Where to Replace To This message only
	Counter	This and any other message in this and all remaing sites OK Abort Inserts a minute, hour, or day counter in a message. For more information, see
		"How to edit a counter file" on page 81. Inserts bitmapped (BMP format) images into a message. For more information,
	Graphic	see "Creating a graphic" on page 66. Inserts images into a message in GIF format. For more information, see
	Gif	"Creating a GIF" on page 77.
	Flick	Displays a number of bitmapped image files on a sign which gives the illusion of movement. For more information, see "Creating a flick" on page 71.
	Message	Inserts an entire message into the current message you are editing.

N	lenu ltem	Description
	Capture	
	Snippet 1	After highlighting some text in a message, select <i>Capture</i> to store the text in one
Snippet	Snippet 2	of 5 snippets. This is a handy way to avoid retyping commonly-used text. When you need to use that text, simply place the cursor in the message where you
Shippet 3	Snippet 3	
	Snippet 4	want it to appear and then click the snippet that holds that text to paste it.
	Snippet 5	



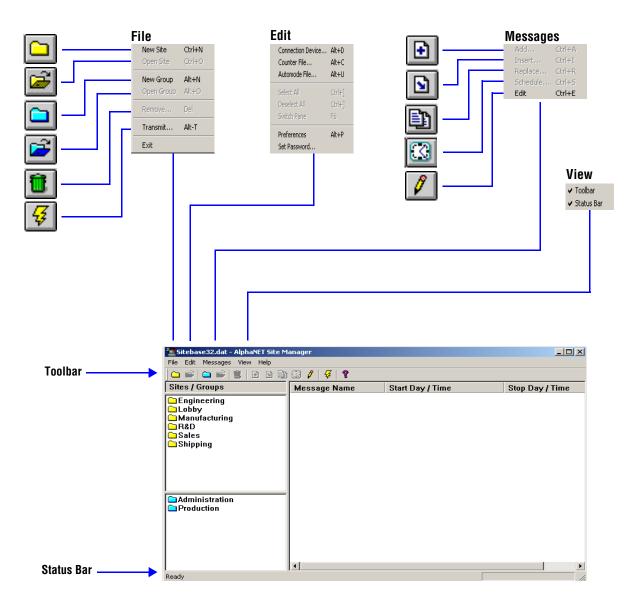
М	enu Item	Description
Cascade Tile	These are standard Windows @ offware matheda of averaging windows and	
	Tile	These are standard Windows® software methods of arranging windows and icons on the screen.
Window	Arrange Icons	
	1 Alpha 1	These are the names of the message windows you have opened. Select a window to make it the current window.



Site Manager is used to set up devices, sites, and groups. Devices are methods of communicating with signs. For example, a modem is a device because it talks to a sign through signals sent over a telephone line.

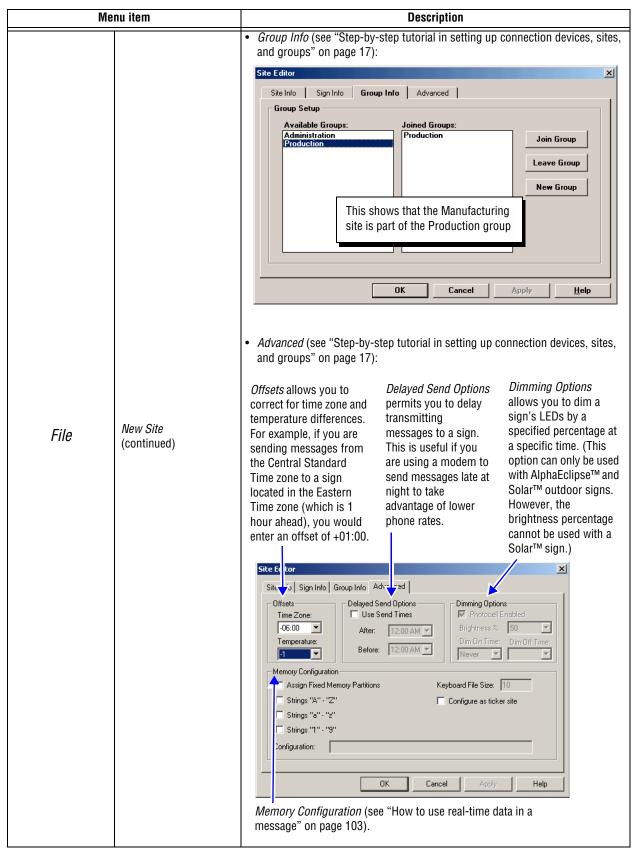
Sites and groups are terms used to describe how messages are sent to signs. You create sites and groups to make sending messages to multiple signs flexible and easy.

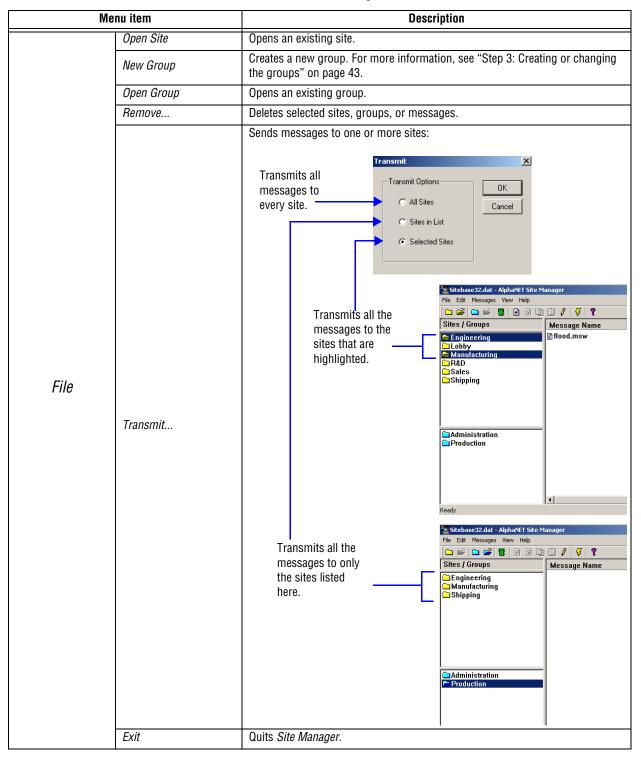
For more information, see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 17.



Me	enu item	Description
		Creates a new site using four tabs of setup information:
		• <i>Site Info</i> (see "Step-by-step tutorial in setting up connection devices, sites, and groups" on page 17):
		Site Editor
		Site Info Sign Info Group Info Advanced
		Site Description
		Site Name: Engineering
		Compatibility: Alpha 1.0 (EZ95) T Full Color (RGB) Capable
		Network Configuration
		Connection Device: Local Wired Com 2
		Phone Number: Cap Code:
		Enable error checking
		OK Cancel Apply Help
		• <i>Sign Info</i> (see "Step-by-step tutorial in setting up connection devices, sites,
File	New Site	and groups" on page 17):
		Site Editor
		Site Info Sign Info Group Info Advanced
		Address List 03:05
		C Single Beep
		Counters File
		C Custom Tone
		Duration: 2
		Automode File Ne Repeat: 0
		Tune File
		Tune File Nr ie Extended Memory
		OK Cancel Apply Help
		Automode File and Tune File are available only if Compatibility on the Site Info tab is set to Alpha 2.0.

Table 20: Site Manager





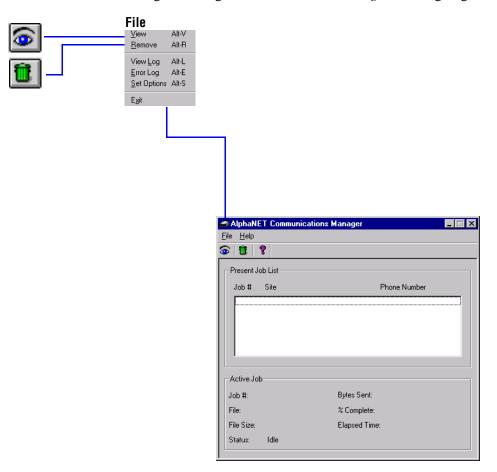
Me	enu item	Description					
	Connection Device	Ways to connect a sign to a PC that is running AlphaNET [™] 3.0 software. There are four types of connection devices: direct cable (local), modem (remote), wireless, and Local Area Network (LAN).					
		For more information, see "Step 1: Creating or changing the connection devices" on page 19.					
	Counter File	Sets up from 1 to 5 numerical counters which can be used in messages or to trigger the display of other messages.					
Edit	Automode File	One or more files can be created so that a message can cycle through a customized list of selected modes. Automode Table - default.aut Mode Order: Unterlock Cancel Add Delete Move					
	Select All	If you have a message selected from the message list, then all messages in the list are selected. The same applies to sites and groups.					
	Deselect All	The opposite of <i>Select All</i> .					
	Switch Pane	There are three panes in the Site Manager window (see below). Selecting Switch Pane moves from the current pane to another pane. Message pane					
	Preferences	Allows you to save run times for recently added messages.					
	Set Password	Allows you to password-protect Site Manager.					

М	enu item	Description
Messages	Add Insert Replace Schedule	Adds a message to the end of the current message list. Inserts a message above the message that is currently selected. Replaces the message currently selected with another message of your choice. Sets the times when a message appears on a sign: In this example, the message will display every Monday from 10:50 a.m. to 12:00 p.m. Stat: Note: Sites that have Compatibility on the Site Info tab set to Alpha 2.0 can schedule messages using dates. Select Date for the start day to activate a calendar.
	Edit	Opens the selected message in <i>Message Editor</i> .

View	Toolbar	Checking <i>Toolbar</i> displays these icons.	Sitebase32dat - AlphaNET Site Manager File Edit Messages View Help Sites / Groups Message Name Stephysic Manufacturing Rab Shipping
	Status Bar	Checking <i>Status Bar</i> displays informative text on this line.	Administration Production



Communications Manager keeps track of messages you send to signs and reports on transmission errors. When a message is transmitted, it goes through *Communications Manager* before going to a sign.



Me	nu item	Description					
	View	Allows you to see the status of messages being transmitted to a site:					
	Remove	Removes selected messages from the job list. When this is done, the removed messages do not appear.					
	View Log	Shows all items sent each day and creates a log file for each day's items.					
File	Error Log	Shows the message error log which is a list of failed message transmissions. Use <i>Resubmit</i> to resend a failed transmission, <i>Details</i> to see the details of a particular transmission, and <i>Delete</i> to remove a job.					
	Set Options	Use to enable or disable saving the log file. You can also set how many days of log files will be saved. This is useful is you have limited disk space. Also, a 24-hour time format (00:00 to 23:59 instead of using AM or PM) can be set for all signs. When this is checked, all signs will display the time in 24-hour format (for example, 13:00 instead of 1:00 PM).					
	Exit	Quits Communications Manager.					

Table 21: Communications Manager

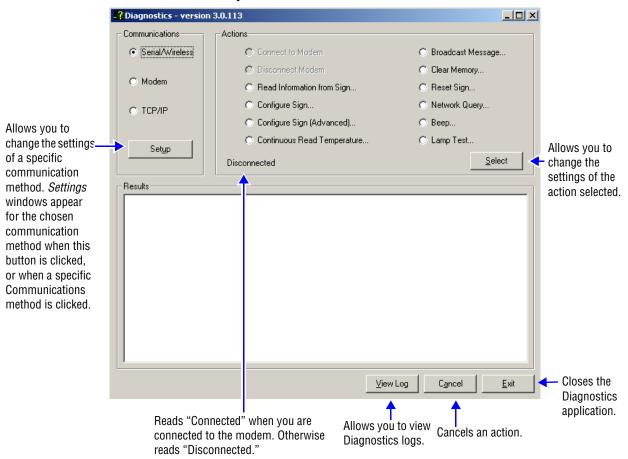
Diagnostics

Diagnostics allows you to test the functions of a single Alpha® sign or a network of Alpha® signs. Diagnostics can:

- transmit messages or beeps to a sign.
- receive specific information (serial address, firmware version, time, temperature, and so on) from a sign.
- set specific information (date, time, temperature, and so on) on a sign.
- reset a sign.
- clear a sign's memory.

Diagnostics can only be launched through the *Start* menu (*Start>Programs>AlphaNET>Diagnostics*). Any changes you make within the Diagnostics application will be saved and appear the next time you open it.

For the best diagnostic result, perform one Diagnostics function at a time. A log file, which contains a record of each function Diagnostics is asked to perform, is automatically created and stored in the same directory as the software itself.



Each action in Diagnostics requires that you select the address of the signs on which you want information. To do this, click the **Select** Address button when it appears:

It is generally better and much faster to retrieve information when you specify the address of a particular sign or signs rather than choosing all addresses.

Select Selected Addresses and then use the Address to Add to List drop-down menus to specify the address of the sign on which you want information. Then click Add. Repeat for each sign address.

Note that the addresses must be added in hexadecimal.

Select Addresses	2
All Addresses Selected Addresses	
Address to Add to List. Address:	Add
Address List:	
	Remove All Remove Last
	<u>O</u> K <u>C</u> ancel
	Click <i>OK</i> when done.

Menu item Description Use the drop-down menus to set the COM port, baud rate, and data format for a serial or wireless connection: Serial Settings × Click here if you Com Port: F want AlphaNET™ Serial/Wireless to determine this Baud Rate: 9600 • information for Data Format: 8,N,1 • you. Auto Detect <u>0</u>K <u>C</u>ancel Complete the information for the transmitting modem for a modem connection: Transmitting Modem Setup × Com Port Connected to Modem: 1 -Baud Rate: 9600 • Data Format: 8,N,1 -Communi-Dialing Prefix: cations Modem Initialization String: Number to Dial: Timeout (in Seconds): 30 Configuration String: AT&H0&R1&B1&N6&Y0&W0 Configure <u>M</u>odem <u>D</u>K <u>C</u>ancel Fill in the IP Address and Port information for a TCP/IP connection: TCP/IP Setup IP Address: Port Ping IP Address TCP/IP <u>o</u>k <u>C</u>ancel Actions Connect to Modem Connects Diagnostics to the receiving modem in your sign. Disconnect Modem Disconnects Diagnostics from the receiving modem in your sign.

Table 22: Diagnostics

М	enu item	Description								
		Displays the information you can request from a sign.								
		Read Information from Sign								
		Requested Information								
		Firmware Revision, Time, General Information Sign Size Register								
		List of Text, Dot, String Files								
		List of Quick Flicks\GIFs Serial Address Register								
		Serial Data Register								
		Memory Capacity								
	Read Information from Sign	Counter Information								
	nom sign	Diate Dim Time (Outdoor Signs Only)								
		Time Dimming Register (Outdoor Signs Only) Memory Dump External Temperature (Outdoor Signs Only)								
		Internal Temperature (Outdoor Signs Only) Temperature Log (Outdoor Signs Only)								
		Select Address Send Cancel								
		Select the information you want Diagnostics to retrieve by clicking the appropriate								
		boxes, and then select the sign addresses. When finished, click Send.								
		Allows you to set specific information on a sign.								
		Configure Sign								
Actions		All Signs Outdoor Signs Only								
		Set Sign Date Set Dim Times								
		Current Computer Date Dim On Time: Dim Off Time:								
		C Other Date: mm-dd-yy								
		C Set Dimming Level								
		Set Sign Time Brightness Level: 50%								
		Current Computer Time								
		C Other Time (24hr format): hh:mm								
		C Set Temperature Offset (Non-Solars)								
		C Change Sign Address Offset: 0								
	Configure Sign	Current Address: 0 🔽 0 🔽 C Set Temperature Offset (Solars)								
		Desired Address: 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1								
		□ Status:								
		Select <u>A</u> ddress <u>S</u> end <u>Stop</u> <u>C</u> lose								
		Complete the appropriate information and then select the sign addresses. When								
		finished, click <i>Send</i> . Use the <i>Status</i> area to view a log of the connection.								
1		Click <i>Stop</i> when you want to stop the transmission before its completion.								

Menu item		Description							
		Allows you to set additional specific information on a sign.							
		Configure Sign (Advanced)							
		Set Sign Size Set Other Options							
		Column Size: Clear Memory on Power Up? No							
		Row Size: Master/Slave: Master							
		Set Serial Address Demo Message: Off							
		Address: 0 V 0 V Color: Mono V							
	Configure Sign	Currently Selected: 00 IR: Off							
	(Advanced)	Initiate Test Mode RS485 Echo: Off							
		Test Mode: Run Normally							
		E Cal Circ Cariel Data Farmat							
Actions		Sign Baud Rate/Data Autobaud Format:							
		Select <u>A</u> ddress <u>S</u> end <u>C</u> lose							
		Complete the information you want Diagnostics to set, and then select the sign addresses. When finished, click <i>Send</i> .							
		Allows you to continually check a sign's internal or external temperature.							
		Continuous Read Temperature							
		How Often to Read Temperature: 15 Seconds							
		Results:							
	Continuous Read Temperature								
		Select Address Storp Exit							
		Select which temperature Diagnostics should check, then use the drop-down menu to choose how often. Finally, select the sign addresses. When finished, click <i>Start</i> . Use the <i>Results</i> area to view a log of the temperatures.							
		Click <i>Stop</i> when you want to stop the transmission.							

	Menu item	Description							
	Broadcast Message	Allows you to send a message to one or more signs, or to continually send a series of messages to one or more signs.							
	Clear Memory	sign addresses. When finished, click <i>Send.</i> Deletes all text and DOTS files from a sign. Choose the sign addresses in the Select Addresses window that appears and click <i>OK</i> .							
	Reset Sign	Restarts a sign. Choose the sign addresses in the Select Addresses window that appears and click <i>OK</i> .							
Actions	Network Query	Identifies a sign. Network Query Query All Addresses Query up to Highest Address Currently Selected: QK Choose whether you want to check all addresses or up to the highest address, and then click OK.							
	Веер	Sends three short beeps to a sign. Choose the sign addresses in the Select Address window that appears and click <i>OK</i> .							
	Lamp Test	Indicates whether any LEDs have burned out in a sign.							
Results		Information about an action Diagnostics performs is logged here.							

Diagnostics

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Appendix A — Macintosh® computer setup

The following instructions describe how to use a Macintosh® computer running Virtual PC^1 with AlphaNETTM 3.0 software.

Required software and hardware

Table 23:	Required	software
-----------	----------	----------

Qty	Part #	Description				
1	—	Macintosh® G4 computer				
1	—	Virtual PC ¹ for Macintosh $^{ m I\!B}$ (This emulates Windows $^{ m I\!B}$ 98, ME, and 2000 software.)				
¹ Av	¹ Available from MacWarehouse (800-255-6227).					

Single sign connection

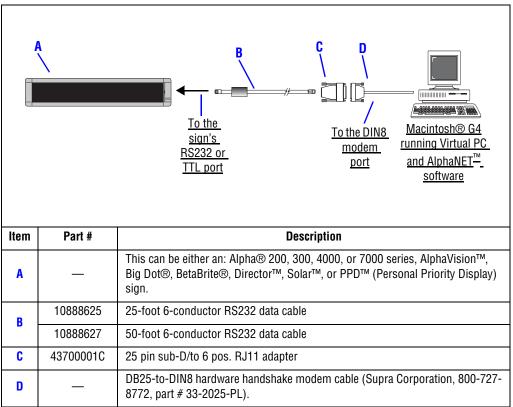
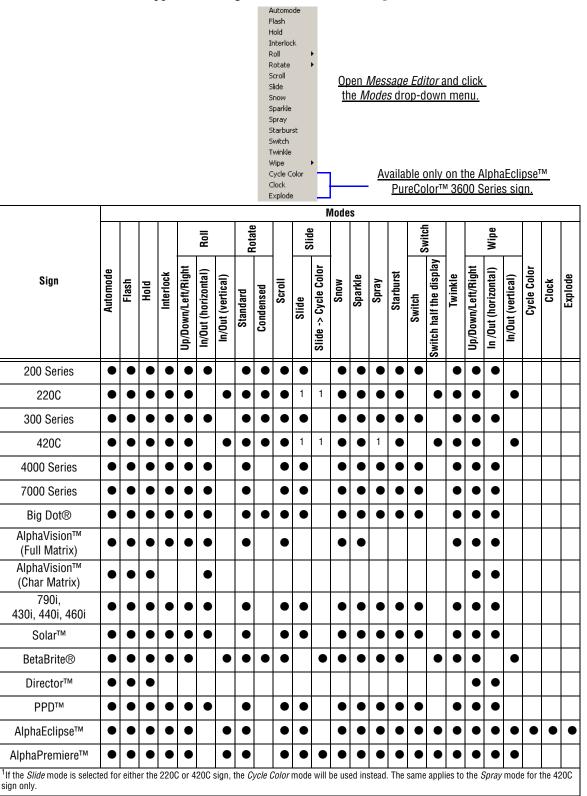


Table 24: Single sign connection

Multiple sign connection

Since there are a number of ways to network signs, see the **Networking Alpha Signs** manual (pn 97000112).

Appendix B — Modes available on signs



Modes are special effects used to change the way a message appears on a sign and are used in *Message Editor*:

Mode	Function
Automode	This is the default mode, which actually consists of using all other modes available to each sign. If no other mode is selected, the message will appear in automode.
Flash	All characters flash off and on from the point of <i>Flash</i> mode until the point where another mode is selected, if any.
Hold	Holds the message or specified text in a fixed place for several seconds.
Interlock	Alternating rows of dots enter from each direction on a sign and interlock to form the message in the center of the sign.
Roll	Rolls the characters in the message in their entirety onto the sign in the desired direction. You can choose to roll up, down, left, right, in, or out.
Rotate	Rotates a message from right to left across the sign without stopping. For certain signs, text can be condensed or standard.
Scroll	Moves the message one line at a time from the bottom to top of the sign. The previous line is pushed off the sign.
Slide	The message moves onto the sign from one direction to the other, one character at a time.
Snow	The dots of each character in the message fall randomly onto the sign as if it is snowing.
Sparkle	The message sparkles onto the sign by randomly filling the letters of the message (at the start of the message display only).
Spray	The message is sprayed onto and across the sign, left to right, column by column, and character by character.
Starburst	Random starbursts explode over and around letters of the message on the sign.
Switch	Alternating characters of the message slide onto the sign from different directions. In other words, the first character slides up, the next down, and so on. For some signs, instead of alternating characters switching, one half of the message on the sign slides up while the other half of the message slides down.
Twinkle	The message appears in its entirety in a twinkling effect with lights flickering off and on for the duration of the message display.
Wipe	The message is wiped onto the sign in the direction specified, filling in each of the characters row by row or column by column. It looks as if it is washing over the old message. You can choose to roll up, down, left, right, in, or out.
Cycle Color	Colors cascade through the message from the bottom up.
Clock	The message is wiped off and then on the display as if a second hand were sweeping around it.
Explode	The message rolls from the center of a display outward in all four directions at once.

Table 25: Mode descriptions

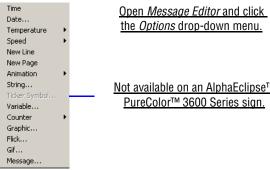
Appendix C — Character fonts and colors available on signs

15/16 Row Normal Open Message Editor and click the 15/16 Row Fancy Characters drop-down menu. Ten Row Seven Row Normal The Condensed and Custom characters Seven Row Fancy allow selection of 15/16 Row, Ten Row, Five Row Condensed Seven Row, or Five row in condensed or Custom customized format. To use them, custom Color fonts must be installed in the sign's Normal Ctrl+R memory outside of the AlphaNET[™] 3.0 Wide Ctrl+W software. Double Wide Ctrl+B Flashing Ctrl+L Double High Ctrl+D Ctrl+T True Descenders Available only on the AlphaEclipse[™] Fixed Width Ctrl+F PureColor™ 3600 Series sign. Shadow Ctrl+H Characters 5/16 Row Normal **Row Norma** 5/16 Row Fancy **Row Fancy True Descenders** íΩ **Double Height Double Wide Fixed Width** Color (see NOT Row Flashing Shadow Ten Row Sign Normal Wide Five I Seven F Seven | 200 Series • • • • • • • • 220C • • • • • • 300 Series • • • • • • • • • 420C • • • • • • • • • 4000 Series • • • • • ۲ • • • • • 7000 Series • • • • • • • • • • • • • • Big Dot® • • • • • • • • • AlphaVision™ • • • • • • • (full matrix) AlphaVision™ • (character matrix) 790i. • 430i, 440i, 460i Solar™ • • • • • • • • • • • BetaBrite® • • • • • • Director™ • • • ۲ • PPD™ • • • • • • • • AlphaEclipse™ • • • • • • • • • • • AlphaPremiere™ • • • • • • • • • • • Sign names ending in "C", such as 4120C, have color capabilities. Sign names ending in "R", NOTE: such as 4120R, can display in red only.

AlphaNETTM 3.0 software allows you to change the character shapes and colors that are used in messages. The *Characters* option and colors are used in *Message Editor*:

Appendix D — Display Options available on signs

Options is a Message Editor menu composed of special features, such as animation, and is used by AlphaNETTM 3.0 software to enhance the way a message appears on a sign:



the Options drop-down menu.

Not available on an AlphaEclipse™ PureColor[™] 3600 Series sign.

Date	Fahrenheit Temperature	Celsius	Speed	New Line	New Page	Animation	String	Ticker Symbol	Variable	Counter	Graphic (see NOTE)	Gif (see NOTE)	Flick (see NOTE)	Message
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•			6			•	●	•	●	●	•			•
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Appendix E — Understanding message line positions (Top, Middle, Bottom, Fill)

Line position refers to where a message is displayed on a sign — the top, middle, bottom, or fill. Line position is available with most modes, such as *Hold*, *Snow*, or *Sparkle*.

An example of line position follows:



will try to fill both lines with the message.

Types of signs

Fill line position.

Signs are categorized by number of lines of text.

- Single-line (BetaBrite[®], 215R & 215C, 220, 300 series, 400 series, Big Dot[®]) — These signs are of varying lengths but are always 7 dots high.
- Two-line (4000 series) These signs are of varying lengths but are always 16 dots high.
- Three-line (7000 series) and multiple-line full matrix (AlphaVisionTM) These signs are of varying heights and widths.
- Multiple-line character matrix (AlphaVisionTM, DirectorTM).

• These signs are of varying heights and widths, but have character blocks with spaces between.

Single-line signs (BetaBrite®, 215R & 215C, 220, 300 series, 400 series, Big Dot®)

On a single-line sign, all characters line up at the bottom of the sign and work their way up as many dots as the font supports. For example:



Exception conditions:

- If the sign receives a font that is larger than the sign can display, it will size it down.
- 7-high normal characters are substituted for any 15-high normal characters.
- 7-high fancy characters are substituted for any 15-high fancy characters, and so on.
- If a graphic is received that is taller than the display can show, the top seven rows are displayed.
- If a graphic is received that is wider than the display can show, it will show the left-most columns of the picture.
- If a graphic is received that is smaller than seven dots tall, it will be displayed from the bottom of the sign up, similar to the 5-dot character set shown above.
- If a character set is not established in the message, 7-high normal characters are used.
- If top, bottom, or fill positions are received, middle is used.

Two-line signs (4000 series)

Top position

On a double-line sign, the *Top* position is defined as the top 7 dots of the sign and operates in the same manner as a one-line sign. See exception conditions for a single-line 7-row sign.

Bottom position

The *Bottom* position is defined as the bottom 7 dots of the sign and is treated as a one-line sign. See exception conditions for a for a single-line 7-row sign.

Middle position

The *Middle* position is treated as though it were one line of 16 dots. Each line of text presented on that line is prescanned to determine the largest piece of text (or graphic object) to be displayed. The line of text is then vertically centered based on the largest object. For example, if you have a line of text which has mostly 5-high characters, but has one 10-high character, the line is viewed as a 10-row high line, and since this is a 16-row sign, that leaves 6 extra rows — 3 blank rows on the top and 3 blank rows on the bottom. All text and objects are then lined up to this new virtual bottom (the 13th line) and treated the same as in a single-line sign.

Exception conditions:

- If the sign receives a font that is larger than the sign can display, it will size it down. On this sign, in the middle position, the only characters that are too large are characters using the double-high control code. This control code is ignored.
- If a graphic is received that is taller than the display can show, the top sixteen rows are displayed.
- If a graphic is received that is wider than the display can show, it will show the left-most columns of the picture.
- If a character set is not established in the message, 16-high normal characters are used.

Fill position

On a 4000 series sign, the *Fill* position indicates that you want to use no more than 7-high characters and that you want to fit as much text on the screen as you can. When in this mode, the sign views itself as having two lines of 7-high characters and no means of handling a character set larger than 7-high. If a graphic is selected, at most seven rows of that graphic will be displayed. If the last piece of text to be displayed (towards the end of the message) is only one line of text, the sign will place 4 blank rows of dots at the top and the bottom of the text in order to center the last line of text vertically.

If the sign is operating on the top row, the bottom of that row is assumed to be the 7th row of dots. All text is started from there and worked up. (5-row characters will use rows 3 - 7, while 7-row characters will use rows 1 - 7.)

If the sign is operating on the bottom row, it works its way up from row 16. (5-row characters will use rows 12 - 16, while 7-row characters will use rows 10 - 16.)

Exception conditions:

- If the sign receives top, bottom, or fill modes and also a font that is larger than 7-high, it will size it down. 7-high normal characters are substituted for any 15-high normal characters. 7-high fancy characters are substituted for any 15-high fancy characters received, and so on.
- If a graphic is received that is taller than 7 rows high (15-high for the *Middle* position), the top 7 rows (top 15 for the *Middle* position) are displayed.
- If a graphic is received that is longer than the display can show, it will show the left-most columns of the picture.
- If a character set is not established in the message, 7-high normal characters are used.

Triple-line (7000 series) and AlphaVision[™] Full Matrix

Top/Bottom

These two positions work together. There is an imaginary line between the top half and the bottom half of the display. We will call this line the centerline. In the example below, the centerline is between the *Hello* and the *lots of text about basically*. The centerline divides what is used on the sign for top position commands from what is used for bottom.



Establishing the position of the centerline

The centerline position is typically established by the first top command received and the rest of the space is used for the bottom. If the bottom command comes first, the centerline is placed at its highest possible position, row 8, allowing for one line of 7-dot characters on the top. If the top command comes first, and not the bottom, the centerline's position is determined by the amount of text following the position command.

Examples:

- If one 7-dot high line of text is received (following a top command), the centerline will be fixed at row 8.
- If one line of 10-dot characters is received (following a top command), the centerline will be placed at position 11.
- If two lines of 5-dot high characters are received (following a top command), the centerline is placed at row 12 (5 for each line of text, plus the 2 blank rows between the lines).

Two exceptions to the above rules are as follows:

- The centerline is never placed higher than 8 rows from the top of the sign.
- The centerline is never placed lower than 8 rows from the bottom of the sign. This ensures that there is always room for one line of 7-dot high characters on the top or bottom (including one blank row).

Once its position is established, the centerline remains fixed at that position until a *Fill* or *Middle* position command is received. All subsequent top or bottom position commands use the amount of space set by the position of the centerline. You cannot change the position of the

Message Centerline Centerli

centerline with a second top/bottom command. For example:

Middle position

The *Middle* position is treated as though it were one line as many dots high as the sign is tall. Each line of text presented on that line is prescanned to determine the largest piece of text (or graphic object) to be displayed. The line of text is then vertically centered based on that largest object. For example, if you have a line of text which has mostly 5-high characters, but has one 10-high character, the line is viewed as a 10-row high line. Assuming this is a 24-row sign, that would leave 14 extra rows — 7 blank rows on the top and 7 blank rows on the bottom. All text and objects are then lined up to this new virtual bottom (the 21st line) and treated the same as in a single line sign.

Exception conditions:

- If a graphic is received that is larger than what the display can show, the top-most rows are displayed.
- If a graphic is received that is longer than the display can show, it will show the left most columns of the picture.
- If a character set is not established in the message, 7-high normal characters are used.

Fill position

On a 7000 series or AlphaVisionTM sign, the *Fill* position indicates that you wish to fit as much text on the screen as you can. On these signs, as opposed to the 4000 series, you can select character sets larger than 7-high in the *Fill* position. The sign will start from the top of the screen working down. If you select a 15-row character set, the sign will fit as many 15-row lines of text on the screen as possible. As soon as the sign detects that the next line will not fit, it will stop creating the current page and display it. The next page will begin with the line that would not have fit. If the text does not use up the entire display, the sign will center the text vertically, splitting the blank space between the top and the bottom.

Exception conditions:

- If a graphic is received that is taller than seven rows high, the top seven rows are displayed.
- If a graphic is received that is wider than the display can show, it will show the left-most columns of the picture.

- If a graphic is received that is smaller than seven dots tall, it will be displayed from the bottom of the sign up, similar to the 5 dot character set explained above.
- If a character set is not established in the message, 7-high normal characters are used.

AlphaVision[™] Character Matrix sign

This sign works exactly like the three-line (7000 series) and AlphaVision[™] Full Matrix signs, with the following exceptions.

Exception conditions:

- If a mode other than *Wipe* is received, it is replaced with *Hold*.
- An AlphaVision[™] sign ignores any of the following: graphics, any character set command except 5- and 7-high normal wide, double-wide, double-high, true descenders, proportional spacing, and animations.
- If a character set is not established in the message, 7-high normal characters are used.

Appendix F — How text and graphics are displayed on signs

Each sign is made up of a display area of columns and rows of LED pixels that can be turned on and off and that can display different colors (for color signs).

Columns and rows make up a sign

For example, a 4120C (or 4120R) sign has a total display area of 120 x 16:

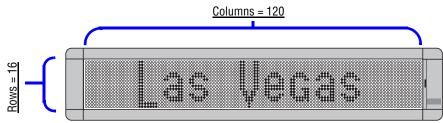
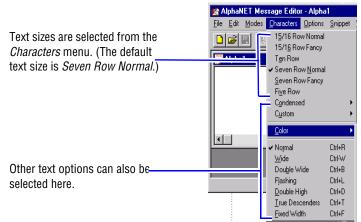


Table 26: The number of columns and rows in signs

Sign		Display area (col x rows)	Colors
BetaBrite®	1-line sign	80 x 7	8
Big Dot®	1-line sign	80 x 7	
215 Series	215R or C	90 x 7	
220	220C	2 lines of 120 x 7	1
300 Series	320C or R	120 x 7	8
	330C or R	180 x 7	
4000 Series	4080C or R	80 x 16	3
	4120C or R	120 x 16	
	4160C or R	160 x 16	
	4200C or R	200 x 16	
	4240C or R	240 x 16	
7000 Series	7080C	80 X 24	- 3
	7120C	120 x 24	
	7160C	160 x 24	
	7200C	200 x 24	
Outdoor displays	790i	90 x 7	1
	Solar [™] series	96 x 16 to 192 x 16	1
	AlphaEclipse™	various	1
AlphaVision™	Display areas from 128 x 32 to 256 x 128.		3
Director™	8 lines of 16 characters		8
PPD™	2 lines of 120 x 7		1
AlphaPremiere™ Series	9080C or R	80 x 32	3
	9120C or R	120 x 32	
	9160C or R	160 x 32	
	9200C or R	200 x 32	
	9240C or R	240 x 32	
NOTE: Sign names ending in "C", such as 4120C, have color capabilities. Sign names ending in "R", such as 4120R, can display in red only.			

Text comes in four basic sizes

The *Characters* menu contains a list of available text sizes, such as *15/16 Row Normal* and *Ten Row*, and options such as *Wide* and *Flashing*:

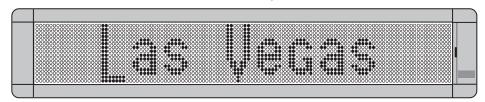


The four basic text sizes are 15/16 Row (Normal and Fancy), Ten Row, Seven Row (Normal and Fancy), and Five Row. These are also available in compressed form. Customized variations can be installed into the sign's firmware and accessed in the software.

Below are examples of how the message *Las Vegas \$85, Chicago \$199* would appear on a two-line 4120C or 4120R sign in all four basic text sizes (except Ten Row):

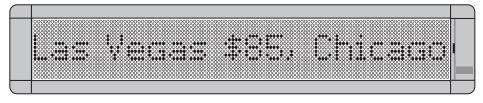
15/16 Row Normal

Characters are 15 or 16 rows high and about 9 columns wide:



Seven Row Normal

Characters are 7 rows high and about 6 columns wide:



Five Row

Characters are 5 rows high and about 5 columns wide:

Graphics must be bitmapped to a sign's columns and rows

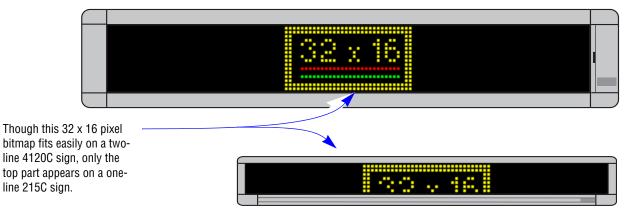
Before you create a bitmap image for a sign, you must first know the display area of that sign. (See "Columns and rows make up a sign" on page 147).

The columns and rows that make up a sign's display area also represent the maximum pixel size of an image that can be put on the sign. For example, a 4120C (or 4130R) sign has a total display area of 120 columns x 16 rows. This means that the largest image a 4120C could display would be 120 pixels long x 16 pixels high:



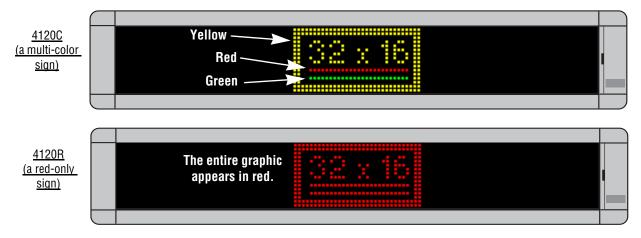
A graphic may be too big for some signs

Because signs vary in size, make sure the images you create can fit on all your signs:



A graphic may be the wrong color for some signs

Only sign names ending in "C" have color capabilities such as the 4120C. Sign names ending in "R", like the 4120R, can only display red:



Paint Shop Pro — an image editor

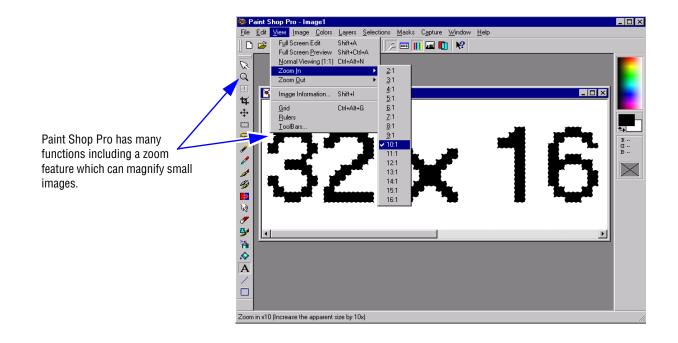
At a minimum, the program you use should have a zoom feature which allows you to magnify the image you are editing because images used on signs are typically 32 x 32 pixels or less in size. (That's very small!)

You will need a program to create and edit bitmapped images. Image editing software examples in this manual illustrate version 5.03 of Paint Shop Pro (the steps are similar for newer versions of Paint Shop Pro).

The latest version of Paint Shop Pro is available from Corel at www.corel.com. They typically offer a 30-day demostration version. However, there is a number of programs designed for editing graphics. You can search for "open source graphic program" or freeware or shareware to get started.

While there are many great commercial programs available, you may not need all their features—or want to pay the price for them.

Paint Shop Pro has many features, including a zoom.



Where can you get a copy of Paint Shop Pro?

• World Wide Web http://www.corel.com/