

The ESTeem Model 195Ep Web Configuration Manager is an internal web server that will allow setup, monitoring and diagnostics of all operating parameters in the Model 195Ep. The 195Ep can be configured using any current web browser software such as Internet Explorer, Netscape or Mozilla.

LOGGING ON TO THE ESTeem WEB PAGE

- Using your Web Browser connect to the Model 195Ep Web Page with the IP Address that you have assigned it in Chapter 3.
- 2. You will now see the Log-on Menu on Figure 1. To enter the Model 195Ep Top Menu you will need to log into the system with a User Name and Password.
- 3. For the User Name enter **admin** and press the Enter key (<Enter>). The User Name is defined at the factory and is not changeable.
- 4. Enter your Password and press the Enter key (<Enter>).

nter Nets	work Passwo	rd	? ×
? >	Please type y	our user name and password.	
٤J	Site:	172.16.48.209	
	Realm	cgi-bin	
	User Name	admin	
	Password	*****	
	🔲 Save this	password in your password list	
		OK Car	ncel

Figure 1: ESTeem Web Page Log-on Screen

If this is the first time the Model 195Ep has been programmed and Password was not changed from the factory default values, proceed with the steps below to access the Configuration Menu.

- The factory default Password is also admin. Enter admin for the Password and press the Enter key (< Enter>).
- Note: All characters are lower case.
- 5. After Log-in the next screen displayed will be the Model 195Ep Top Menu page (Figure 2). This example screen shows the Top Menu screen.

		EST195E Web Configuration Manager	
Top	Status Log	Setup Advanced Backup Restore SoftwareUpdate Reboot About	
		Тор	
		This is the Top Page for the Web Configuration Manager. Below are the most recent saved settings of the wireless LAN unit. To reconfigure the wireless LAN unit, select the Setup tab.	
		Change Admin Password	
		Serial Number E-14989	
		Software Version: 302.6.104	
		Modem ID:	
		Model: 195Eg	
		Boot Loader: U-Boot 1.0.0.4.3 for the 195Eg	
		Current Mode of Operation: AP Bridge	
		Wireless device 1	l.
		Wireless1 SSLD: ESTeem	
		Wireless1 Channel(Freq): 9 (2452MHz)	
		Wireless I MAC Address: 00/60:B3:DD:3C97	
		Wireless I Kepeater enabled: false	(
		Ethemet 1 MAC Address 00.04/2E/00.19/74	
		Bildes device	
		Bridge MAC Address: 00.04/3F:00.18/74	1
		Bridge IP Address: 172 16 58 189	
		Bridge IP Netmask: 255.255.0.0	
		Default Route: 172.16.1.6	
		DNS Settings: None	
		Figure 2: To	p Menu Screen



Note: Throughout the Configuration Manager are Help Screens that can accessed for further information on each item.



WEB CONFIGURATION MANAGER SECTIONS

The following sections will describe the features in each of the main and sub menu items in the web pages. For step-by-step examples of how to configure the Model 195Ep in different Modes of Operation, please refer to Chapter 5 - Example Configurations.

Top Menu

The Top Menu will be the default web page for the Model 195Ep Web Configuration Manager (Figure 2). This section will display the current configuration summary for the Model 195Ep and allow changing of the default password. This page will also display the Modem ID field that can be used to easily identify the 195Ep you are programming. This Modem ID field can be set to any text combination for example, location name, GPS coordinates or addresses.

Setting the Modem ID

- 1. The Modem ID field can be adjusted under the *Global Variables* of the Advanced Menu tab. Select Global Variables and press the *Next* button. Figure 3 will be displayed.
- Scroll to the bottom of the Global Variables window and enter the text you would like displayed in the Modem ID field (Figure 4). When complete, press the *Save Settings* button and the *Commit Changes* button on the next screen to save the name to the 195Ep.



		EST195E Web Configuration Mana	ger ES	
<u>Top</u>	<u>Status</u> <u>Log</u>	Setup Advanced Backup Restore SoftwareUpdate Reboot About		
		Advanced - Global Variables		
		The following is a list of those configuration variables under the c variables are independent of any specific network settings or any	Global Variables category. These value of these specific networking interface.	-
		ADMIN_HOSTNAME wdp80211	Enter 1 - 30 characters	
		ADMIN_BASETIME 010100002000	Format: MMDDhhmmYYYY	
		MODEM_ID	Free format string to use for addilional identifying information for this system. E.g. "Room 301" or "4th and Main".	

Figure 4: Modem ID Field in Global Variables Screen



Status Menu

The Status Menu provides a summary of the current mode of operation, system time, processor usage and status of the communication links to other wireless devices. An example is shown below in Figure 5. Most of the communication troubleshooting is done in this section of the Web Configuration Manager.

	EST195E Web Configuration Manager	
<u>Top</u> Status <u>Log</u> <u>Setu</u>	p Advanced Backup Restore SoftwareUpdate Reboot About	
	Status: Summary	
	,	
	This is a summary of the status of the overall system. Most of the source data for this display is also accessible through the "System Details" of the "Log" tab.	
	Common Status	
	System Mode: AP Bridge	
	Current System Time: Mon, 12 Jun 2006 09:59:01	
	Jystem Lemperature: 154446952 C, 0 F	
	CPU/Momory Status	
	("PII IIcermode(%): 5	
	("PII Kernelmode(%): 4	
	CPUI Idle(%): 91	
	CPU Interrupts per Second: 32	
	Pageable Memory Total: 14404	
	Pageable Memory Used: 10588	
	Pageable Memory Free: 3816	
	Number of Processes: 26	
	Necessaria Suchaetaanaa	
	Wireless device 1 Status	
	<u>View Peer Table</u>	
	<u>View Global Counter Details</u>	
	SSID (hex): 45:53:54:65:65:6d	
	SSID (text): ESTeem	
	MAC Address: 00:04:3F:00:09:66	
	Wireless Repeater enabled: true	
	Associated Stations: 0	
	Rx Bytes: 4444	
	Kx Frames: 60	
	Kx Frame Errors: U	
	IX Bytes: 8228	
	IX Prames: 101	
	IX Errors: Jy	
	IX LATOPS. 42	
	Ethernet device 1 Status	
	Ethernet MAC Address: 00:04:3F:00:09:64	
	Rx Bytes: 4059	
	Rx Frames: 37	
	Rx Frame Errors: 0	
	Tx Bytes: 24572	
	Tx Frames: 91	
	Tx Errors: 0	
	Tx Drops: 0	
	Figure 5: St	atus Screen

Peer Status Table

The Peer Status submenu lists the connected wireless devices (either Model 195Eps or 802.11g/b clients), their signal strength, data rate and time of last packet sent. Press the <u>View Peer Table</u> link and Repeater Peer Status Table will be displayed (Figure 6). For a detailed analysis of the information provided in this table, please review Appendix F - Troubleshooting.

<u>Associated Station</u> – This section will list all the associated stations that are attached to the Access Point. These could be other Model 195Ep's in one of the three Client modes or 802.11g/b devices.



<u>Repeater Peers</u> – This section will list all connected 195Ep repeater peers by their Wireless MAC address. For detailed information on repeaters, see Chapter 6 – Repeating Features.

<u>Access Points</u> – This section will list all other 802.11g or 802.11b Access Points that are sharing the operating channel (frequency) of the 195Ep. You can also note that the Repeater Peers listed above are also included in this list.

	EST195E	Web Confi	guration Ma	anager		E		
Top Status Log Setu	p Advanced Backup R	estore Softwar	eUpdate Reboo	ot About				
	Status: Peer Tabl	e						
	This page is a summ address for more def Return to Status Summa Associated Stations	ary view of th ails about tha ry Page	e peer table fo t peer.	r WLAN devi	ice wlan0. Ci	lick on a give	en MAC	
	MAC Addr	Signal	LastRx (sec@kbps)	Tx(Pkts)	Tx(KB)	Rx(Pkts)	Rx(KB)	
	00:14:6c:19:0e:59	-48	47@54000	206	5	383	26	
	Repeater Peers							
	MAC Addr	Signal	LastRx (sec@kbps)	lodem ID				
	00:04:3f:00:18:76	-42	0@54000					

Counter Details

Figure 6: Peer Table Screen

The Counter Details submenu will summarize all transmitted and receive data packets for the Model 195Ep (Figure 5).



System Log Screen

The Log Screen is a trouble-shooting tool that shows the current log of Model 195Ep system messages. See Figure 7. The System Details button will display a more detailed system diagnostics that may be requested by ESTeem technical support.

EST195E Web Configuration Manager
Top Status Log Setup Advanced Backup Restore SoftwareUpdate Reboot About
System Log
System Log
The following display is the system log. To view more defailed system information, click on the System Details button
Pustan Detaile
System Details
System Log:
Jan 1 00:00:00 (none) syslog.info syslogd started: BusyBox v1.00 (2006.05.22-22:27+0000)
Jan 1 00:00:01 (none) kern.notice kernel: klogd started: BusyBox v1.00 (2006.05.22-22:27+0000)
Jan 1 00:00:01 (none) kern.warn kernel: Linux version 2.4.27 (tbrown@brown) (gcc version 3.4.3) #10 Wed May 31 14:35:43 PD
Jan 1 00:00:01 (none) kern.warn kernel: Early serial init of port 0
Jan 1 00:00:01 (none) kern.warn kernel: Early serial init of port 1
Jan 1 00:00:01 (none) kern.warn kernel: Esteem 195CPU (C) 2004 Electronic Systems Technology.
Jan 1 00:00:01 (none) kern.warn kernel: On node 0 totalpages: 4096
Jan 1 00:00:01 (none) kern.warn kernel: zone(0): 4096 pages.
Jan 1 00:00:01 (none) kern.warn kernel: zone(1): 0 pages.
Jan 1 00:00:01 (none) kern.warn kernel: zone(2): O pages.
Jan 1 00:00:01 (none) kern.warn kernel: Kernel command line: root=/dev/mtdblock3 ro console=tty50,38400
Jan 1 UU:UU:U1 (none) kern.warn kernel: Calibrating delay loop 249.U3 BogoMIPS
Jan 1 UU:UU:U1 (none) kern.info kernel: Memory: 1432Uk available (1392k kernel code, 372k data, 84k init, UK highmem)
Jan 1 UU:UU:UI (none) kern.inio kernel: Pentry cache nash table entries: 2048 (order: 2, 15384 bytes)
Jan 1 UU:UU:UI (none) Kern.inio Kernei: inode cache nash table entries: 1024 (order: 1, 8192 bytes)
Jan 1 OCIOUCIDI (NUDRE) KELALIAIO KETAELI HOUNT CACHE MASA TABLE ENTITESI 512 (OTCHET U, 4096 bytes)
Figure 7: System Log Screen

Setup Screen

The Setup screen allows the step-by-step configuration of the Model 195Ep. Please see Chapter 5 for complete description on System Setup menu and examples for system configurations. See Figure 8.

Top Status Log Setup	EST195E Web Configuration Manager	EM reless Moderns
	Setup This is the main Setup Page. Select a mode of operation for the wireless LAN unit from the following list.	
	Select Mode of Operation: AP Bridge Help Next	





Advanced Configuration Screen

The Advanced screen allows the user to access all configuration parameters. The parameters are grouped based upon their variable. It is recommended that only advanced users of the Model 195Ep enter this section unless instructed by ESTeem technical support. See Figure 9.

EST195E Web Configuration Manager	Vireless Moderns
Top Status Log Setup Advanced Backup Restore SoftwareUpdate Reboot About	
Advanced	
Modification of any setting in this section should only be completed if specifically noted in the documentation or requested by ESTeem technical support. Adjustment of any variable in the advanced configuration may result in product inoperability.	
The Advanced fealure provides access to the configuration variables without the <u>Quick Satup</u> navigation using the <u>Satup</u> tab. This feature is intended for experienced users who know the interdependencies between the configuration variables. The variables have been grouped by categories. Select from a category below.	
To permanently commit all of your changes and reboot the system, click on the "Commit and Reboot" button below.	
Once the changes have been permanently saved, the system will reboot with the new settings in effect.	
Global Settings: Global Variables © Wireless LAN Settings: <u>all</u> wireless LAN devices © wlan0 device ©	
Vendor Specified Wireless LAIN Settings: wlan0 device C	
Network Settings:	
whand device C	
br0 device O	
Static IP routes O	
Bridge Settings: Bridge Variables C	
Commit and Reboot Next	
Figure 9: Advanced Feat	ures Screen

Backup Screen

The Backup Screen saves the current configuration in the Model 195Ep to a file on the computer or network. See Figure 10. Pressing the Backup Button will create a configuration file that can be saved to the computer. This saved file can then be later opened, if necessary, by the Restore menu to quickly replace a Model 195Ep with a spare modem.

	EST195E Web Configuration Manager	
Top Status Log Setu	2 Advanced Backup Restore SoftwareUpdate Reboot About	
	Backup	
	To backup the most recent commited changes to your local PC, click the Backup button below.	
	Backup	
	Figure 10: I	3ackup Screen



Restore Screen

The Restore screen is used to restore the 195Ep to factory defaults, return to the last saved configuration or to access the configuration files that were backed up to the computer. See Figure 11.

	EST195E Web Configuration Manager	
Top Status Log Setu	o Advanced Backup Restore SoftwareUpdate Reboot About	
	Restore Settings	
	The Restore feature allows you to restore this device to the settings from one of the sources below. Click the appropriate button.	
	Factory Defaults Last Committed Changes File	

Figure 11: Restore Setting Screen

Factory Default – Returns the Model 195Ep to all factory default values.

<u>Last Committed Changes</u> – This button will remove any changes to the modern that have been done since the last committed changes. The last committed changes will be read from the Flash file and reset in the Model 195Ep.

<u>File</u> – Pressing this button will bring up a selection of where the restore file was saved during the Backup (Figure 12). Select "Upload via web browser" to browse for files saved on a local computer or select "Download from an http or ftp URL" for files saved on a network or over the Internet.

	EST195E Web Configuration Manager	
Top Status Log Setu	p Advanced Backup Restore SoftwareUpdate Reboot About	
	Restore - From a File	
	Select which method this device will use to retrieve the configuration data file:	_
	Upload via web browser © <u>Help</u> Download from an http or ftp URL O	
	Previous Next	
	Figure 12: Restore From	Local File Screen



Software Update Screen

The Software Update feature allows the user to update the latest Model 195Ep operating system software from a file supplied by the factory or the Internet to the Model 195Ep's flash memory. To upload from a file on your computer, select *Upload via web browser* and a file selection window will be displayed. To upload directly from the Internet, select *Download from an http or ftp URL* and enter the site address. See Figure 13.

	EST195E Web Configuration Manager	
Top Status Log Setur	Advanced Backup Restore SoftwareUpdate Reboot About	
	Software Update The Software Update feature allows you to perform a field update of various files, such as a software update image, containing an operating system upgrade and a new root file system, or a new HTTPS certificate.	
	Select which file you wish to retrieve: Software update image file HTTPS certificate Next	
	Figure 13: Software I	Jpdate Screen

System Reboot Screen

The Reboot screen allows the user to reset the Model 195Ep. See Figure 14.

EST195E Web Configuration Manager	Vireless Moderns
Top Status Log Setup Advanced Backup Restore SoftwareUpdate Reboot About	
System Reboot If you would like to reboot this device, press the Reboot button below. Otherwise, select from o of the above tabs to continue. Rebooting this device will cause the most recently committed configuration changes to take effect.	ne
Reboot	m Reboot Screen