рртр

The PPTP screen displays the IP Address, Subnet Mask and Default Gateway of your Barricade. Enter the User ID and Password assigned by your ISP in the appropriate fields. Enter the Idle Time Out for the Internet connection. This is the period of time for which the connection to the Internet is maintained during inactivity. The default setting is 10 minutes. If your ISP charges you by the minute, you should change the Idle Time Out to one minute. After the Idle Time Out has expired, set the action you wish the Barricade to take. You can tell the device to connect manually or automatically as soon as you try to access the Internet again, or to keep the session alive.

SMC [®]	
Setup Wizard Home Network Settings *Status * UAN Satings * WAN Satings * Wireless Security Advanced Settings	PPTP Point-to-Point Tunneling Protocol is a common connection method used for xDSL connections in Europe. IP Address: 0 0 0 0 0 Default Gateway: 0 0 0 0 Default Gateway: 0 0 0 0 User ID: PPTP Gateway: 0 0 0 0 Idle Time Out: 10 (min) Manual-connect Auto-connect Keep session * If you have an ISP that charges by the time, change your idle time out value to 1 minute. SAVE SETTINGS CANCEL

Static IP

If your Service Provider has assigned a fixed IP address, enter the assigned IP address, subnet mask and the gateway address on this screen.

SMC [®]		S
Setup Wizard Home Network Settings Status LAN Settings WAN Settings Wireless	Static IP If your Service Provider has assigned a fixed IP address; enter the assigned IP address, subnet mask and the gateway address provided. Has your Service Provider given you an IP address and Gateway address? IP address assigned by your Service Provider : n n n n	
Security Advanced Settings	Subnet Mask : 0 , 0 , 0 , 0 Service Provider Gateway Address : 0 , 0 , 0 , 0	
	SAVE SETTINGS CANCEL	ſ

Wireless

The Barricade can be quickly configured for roaming clients by setting the Service Set Identifier (SSID) and channel number. It supports data encryption and client filtering.



To use the wireless feature, check the **Enable** check box and click **Save Settings**. After clicking **Save Settings**, you will be asked to log in again.

See "Security" on page 4-27 for details on how to configure wireless security.

Channel and SSID

Enter your wireless network settings on this screen. You must specify a common radio channel and SSID (Service Set ID) to be used by the Barricade and all of its wireless clients. Be sure you configure all of its clients to the same value. For security purposes, you should change the default SSID immediately.

SMC [®] Notworks	
Setup Wizard Home Network Settings Status	Channel and Wireless Network Name(SSID) This page allows you to enter the Wireless Network Name(SSID) and the Channel number. These parameters are used for a wireless computer to connect to this wireless router.
WAN Settings Wireless Channel and SSID WDS	Wireless Network: Name (SSID) SMC Broadcast Wireless Network: Name C ENABLE C DISABLE Wireless Mode 111 b/g Mixed mode ►
Security Advanced Settings	Wi-Fi Channel number 6
	SAVE SET TINUS

Parameter	Description
Wireless Network Name (SSID)	The Service Set ID (SSID) is the name of your wireless network. The SSID must be the same on the Barricade and all of its wireless clients. (Default: SMC)
Broadcast Wireless Network Name	Enable or disable the broadcasting of the SSID. If you disable broadcast of the SSID, only devices that have the correct SSID can connect. This nullifies the wireless network "discovery" feature of some products such as Windows XP. (Default: Enable)
Wireless Mode	This device supports the following modes; 11g only, 11b only, 11b/g mixed mode, Super G-Dynamic Turbo and Super G-Static Turbo. (Default: 11b/g mixed mode)

Parameter	Description
Wi-Fi Channel Number	The radio channel used by the Barricade and its clients to communicate with each other. This channel must be the same on the Barricade and all of its wireless clients.
	The Barricade will automatically assign itself a radio channel, or you may select one manually. (Default: 6)
Extend Range	Extends the range of the Barricade. (Default: Disable)

WDS

The Wireless Distribution System (WDS) provides a means to extend the range of a Wireless Local Area Network (WLAN). WDS allows the Barricade to establish a direct link to other wireless base stations and allows clients to roam freely within the area covered by the WDS. To carry out a site survey of available wireless base stations, click **Scan**.

SMC®		Н	OME NE	TWORK	SETTINGS
Setup Wizard A Home Network Settings Status LAN Settings WAN Settings Wireless	WDS The Wireless Distribution System (WDS) (WLAN), WDS allows a wireless router to roam freely within the area covered by i Site Survey	provides o establish the WDS.	a means to extend the n a direct link to other v	range of a Wireless Li rireless base stations	ocal Area Network and to allows stations to Scan
Channel and SSID	SSID	Channel	MAC Address	Security	Enable WDS
> WDS	UI-WEP64-1111111111	6	00-30-f1-b4-46-12	WEP	
Advanced Settings	UI-WEP128-111111111111111111111111111	6	00-11-95-ca-de-db	WEP	
Advanced Sectings	SMC	6	00-04-e2-c2-65-b8		
	Manual-1	N/A		N/A	
	Manual-2	N/A		N/A	
	Manual-3	N/A		N/A	
	Manual-4	N/A		N/A	
		SA	VE SETTINGS CAN	CEL	
- -					

Parameter	Description
SSID	The Service Set ID (SSID) is the name of your wireless network. The SSID must be the same on the Barricade and all of its wireless clients.
Channel	This device supports the following modes $11g$ only, 11b only, and $11b/g$ mixed mode.
MAC Address	The media access control address (MAC address) is a unique identifier attached to each wireless base station.
Security	Displays the security mechanism in use.
Enable WDS	Enables the WDS feature. When enabled, up to 4 WDS links can be set by specifying their Wireless MAC addresses in the MAC address table. Make sure the same channel is in use on all devices. (Default: Disable)

Security

The first menu item in the Security section is Firewall. The Barricade provides a stateful inspection firewall which is designed to protect against Denial of Service (DoS) attacks when activated. Its purpose is to allow a private local area network (LAN) to be securely connected to the Internet.

The second menu item is Wireless. This section allows you to configure wireless security settings according to your environment and the privacy level required.

SMC [®]	SECURITY
Setup Wizard Home Network Settings Security • Firewall • Wireless Advanced Settings	Security Device provides a stateful inspection firewall which is designed to protect against Denial of Service attacks when activated. Its purpose is to allow a private local area network (LAN) to be securely connected to the Internet.

To configure your firewall settings, click Firewall in the left-hand menu.

Firewall

The Barricade's firewall inspects packets at the application layer, maintains TCP and UDP session information including time-outs and the number of active sessions, and provides the ability to detect and prevent certain types of network attacks.



Network attacks that deny access to a network device are called Denial-of-Service (DoS) attacks. DoS attacks are aimed at devices and networks with a connection to the Internet. Their goal is not to steal information, but to disable a device or network so users no longer have access to network resources.

The Barricade protects against the following DoS attacks: IP Spoofing, Land Attack, Ping of Death, IP with zero length, Smurf Attack, UDP port loopback, Snork Attack, TCP null scan, and TCP SYN flooding. (See "Intrusion Detection" on page 4-35 for details.)

The firewall does not significantly affect system performance, so we advise leaving it enabled to protect your network.

Enable the firewall feature, and click Save Settings to proceed.

Schedule Rule

The first item listed in the Firewall section is Schedule Rule. You may filter Internet access for local clients based on rules.

SMC [®]			SECURITY
Setup Wizard Home Network Settings Security Firewall	Schedule Rule This page defines schedule rule • Schedule Rule Table (up	e names and activates the schedule for use in t to 10 rules):	he "Access Control" page.
Schedule Rule Access Control	Rule Name	Rule Comment	Configure
MAC Filter	Weekdays Rule1	No weekday emailing	Edit Delete
 Parental Control Intrusion Detection 	Add Schedule Ro	ule	
* Wireless Advanced Settings			SAVE SETTINGS CANCEL

You may filter Internet access for local clients based on rules.

Each access control rule may be activated at a scheduled time. First, define the schedule on the Schedule Rule page, then apply the rule on the Access Control page.

To add a new rule, click **Add Schedule Rule**. Proceed to the following page.

Edit Schedule Rule

1. Define the appropriate settings for a schedule rule (as shown on the following screen).

SMC [®]			SE	CURITY
Setup Wizard ▲ Home Network Seturity ● Firewall ■ Schedule Rule ▶ Access Control	Edit Schedule Rule Name : Weekdays Rule1 Comment: No weekday emailing Activate Time Period:			
MAC Filter Parental Control	Week Day	Start Time (hh:mm)	End Time (hh:mm)	
Intrusion Detection	Every Day	00 : 00	00 : 00	
V UM2	Sunday	00 :00	00 :00	
Advanced Settings	Monday	08 : 00	18 : 00	
	Tuesday	08 : 00	18 :00	
	Wednesday	08 : 00	18 :00	
	Thursday	08 : 00	18 : 00	
	Friday	08 : 00	18 :00	
	Saturday	00 : 00	00 : 00	
				OK Cancel

 Upon completion, click OK to save your schedule rules, and then click Save Settings to make your settings to take effect.

Access Control

SMC [®]					BCURITY
Setup Wizard A Home Network Settings Security Firewall Schedule Rule Nacess Control MAC Eller	Access Control Access Control allows us includes IP address filter • Enable Filtering Fu • Normal Filtering Ta	sers to define the tra ring and MAC address inction : C Enable able (up to 10 compu	ffic type permitted or not-per filtering. Oisable ters):	mitted to WAN port ser	vice. This page
Parental Control PIntrusion Detection DMZ Wireless	Rule Description	Client PC IP Address 192.168.2.10 ~ 20	Client Service E-mail Sending, E-mail Receiving	Schedule Rule Weekdays Rule1	Configure Edit Delete
Advanced Settings	Add PC			SAVE SET	TINGS CANCEL

Used in conjunction with the Schedule Rule screen, the Access Control screen allows users to define the outgoing traffic permitted or not-permitted. The default is to permit all outgoing traffic.

The Barricade can also limit the access of hosts within the local area network (LAN). The MAC Filtering Table allows the Barricade to enter up to 32 MAC addresses that are not allowed access to the WAN port.

- 1. Click Add PC on the Access Control screen.
- 2. Define the appropriate settings for client PC services (as shown on the following screen).
- 3. Click **OK** and then click **Apply** to save your settings.

The following items are displayed on the Access Control screen:

Parameter	Description
Enable Filtering Function	Enables or disables the filtering function.
Normal Filtering Table (up to 10 computers)	Displays the IP address (or an IP address range) filtering table.

Access Control Add PC

Define the access control list in this page. The settings in the screen shot below will block all email sending and receiving during weekdays (except Friday). See "Schedule Rule" on page 4-29.

SMC [®]		S	ECURITY
Setup Wizard Home Network Seturity Firewall Access Control Access Control Parental Control	Access Control Add PC This page allows users to define ser criteria. For the Parental Control fur the scheduling function, you also ne • Client PC Description: No err • Client PC IP Address: 192.16	vice limitations of client PCs, including IP address, service type cution, you need to configure the UPL address first on the "Pare ed to configure the cutient of the "Schedule Rule" p mailing 18.1. 12 ~ 12	and scheduling rule Intal Control [®] page. For Iage.
Intrusion Detection DMZ Wireless Advanced Settings	Client PC Service: Service Name WWW WWW with Parental Control	Detail Description HTTP, TCP Port 80, 3128, 8000, 8001, 8080 HTTP (Ref. Parental Control Page)	Blocking
Auvanceu settings	– E-mail Sending News Forums E-mail Receiving Secure HTTP	SMTP, TCP Port 2S NHTP, TCP Port 119 POP3, TCP Port 110 HTTPS, TCP Port 443	지 고 지 고
	File Transfer Telnet Service AIM	FTP, TCP Port 21 TCP Port 23 AOL Instant Messenger, TCP Port 5190	
	NetMeeting DNS SNMP	H.323, TCP Port 1720, 1503 UDP Port 53 UDP Port 161, 162	

Define the appropriate settings for client PC services (as shown above). At the bottom of this screen, you can



set the scheduling function. You can set this function to **Always Blocking** or to whatever schedule you have defined in the Schedule Rule screen. Click **OK** to save your settings. The added PC will now appear in the Access Control page.

For the URL/keyword blocking function, you will need to configure the URL address or blocked keyword on the Parental Control page first. Click **Parental Control** to add to the list of disallowed URL's and keywords.

To enable scheduling, you also need to configure the schedule rule first. Click **Schedule Rule** in the left-hand menu to set the times for which you wish to enforce the rule.

MAC Filter

Use this page to block access to your network using MAC addresses.

SMC [®]		SECURITY
Na two rk ta Setup Wizard A Home Network Settings Security Firewail D Schedule Rule D Accass Control D Mac Filter D Farental Control D Mac Filter D Farental Control D Mac Settings Advanced Settings	MAC Filter This section helps provides MAC Filter configuration. When enabled, only MAC address configured will have access to your network. All other client devices will get device this security feature can support up to 32 devices and applies to clients. • MAC Address Control: C Enable © Disable SAVE 3 • MAC Address Control: C Enable © Disable SAVE 3 • MAC Address • MAC Address • MAC Address 1 00 : 157 : 166 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104 : 104	() ∰ Home ⊗Logout ± sociess: ETTINOS CANCEL
4 ×	5 : : : : : : : : : : : : : : : : : : :	×
	[p=192.1692.100 name=abcr[al+NB ip=192.1692.101 name=test-dk1 ip=192.1692.102 name=test-dk1 ip=192.1692.1692.102 name=toste bsueh	

The Barricade can also limit the access of hosts within the local area network (LAN). The MAC Filtering Table allows the Barricade to enter up to 32 MAC addresses that are allowed access to the WAN port. All other devices will be denied access. By default, this feature is disabled.

Parental Control

The Barricade allows the user to block access to web sites from a particular PC by entering either a full URL address or just a keyword. This feature can be used to protect children from accessing violent or pornographic web sites.

SMC [®]				SI	ECU
Setup Wizard Home Network Settings Security Firewall P Access Control MAC Filter	Parental Control Disallowed Web Sites and Keyword You can block access to certain V the Web site. To specify the particular PC, go b the "Normal Filtering Table".	ds. Neb sites from a particu ack to the "Access Conf	lar PC by entering i trol [*] page and chec	either a full URL address sk the box for "Http with	or just a ke Parental C
Pearclal Control Intrusion Detection POM2 Wureless Advanced Settings	Pule Number Site 1 Site 2 Site 3 Site 4 Site 5 Site 6 Site 7 Site 8 Site 9 Site 10 Site 11 Site 12	URL / Keyword guns drug www.unsuitable.com	Rule Number Site 16 Site 17 Site 18 Site 21 Site 22 Site 23 Site 24 Site 25 Site 26 Site 26 Site 27	URL / Keyword	

You can define up to 30 sites or keywords here. To configure the Parental Control feature, use the table to specify the web sites (www.somesite.com) and/or keywords you want to block on your network.

To complete this configuration, you will need to create or modify an access rule in "Access Control Add PC" on page 4-32. To modify an existing rule, click the **Edit** option next to the rule you want to modify. To create a new rule, click on the **Add PC** option.

From the Access Control, Add PC section, check the option for **WWW** with **Parental Control** in the Client PC Service table to filter out the web sites and keywords selected below, on a specific PC.

Intrusion Detection

The Barricade's firewall inspects packets at the application layer, maintains TCP and UDP session information including timeouts and number of active sessions, and provides the ability to detect and prevent certain types of network attacks such as Denial-of-Service (DoS) attacks.

SMC® Notworks						SEC @ क⊧	URITY
Setup Wizard Home Network Settings Security • Firewall • Schedule Rule	Untrus When the Inspectic applicatio The Devi length, S	ion Detection e SPI (Stateful Packet Ins on (SPI) allows full support ons checked in the list bel ice firewall can block comr murf Attack, UDP port loo	pection) firewall feature is of different application ty ow, the Device will suppor non hacker attacks, incluc bhack, Snork Attack, TCP	: enabled, all p. ypes that are u t full operation ing IP Spoofing null scan, and	ackets can be l ising dynamic p i as initiated fro g, Land Attack, TCP SVN flood	blocked. Statefu iort numbers. Fo om the local LAN. Ping of Death, Il ing.	I Packet r the P with zero
MAC Filter Parental Control Intrusion Detection	• Int	trusion Detection Feature PI and Anti-DoS firewall pr	otection			Г	
Wirelace	RI	IP defect					
Advanced Settings	Di	iscard Ping To WAN Interfa	ace				
	• Sta	ateful Packet Inspection					
	Pa	acket Fragmentation			V		
	т	CP Connection					
	U	DP Session					
	F	TP Service			V		
	т	FTP Service					
	• •	ren nackers attempt to en	ter your network, the wirk	ress router ca	malert you by r	SEC	URITY ome ©Logout
Setup Wizard 🔺 Home Network	• Wh	ien hackers attempt to en	ter your network, the wire	less router car	n alert you by e	e-mail	-
Settings	Ye	our E-mail Address					
Firewall	SN	MTP Server Address	, L				
Schedule Rule		DR Conver Address					
Access Control		JPS Server Address					
MAC Filter Parental Control	Us	ser name	1				
 Intrusion Detection DMZ 	Pa • Cor	nnection Policy					
Wireless							
navaneca occurrys	Fr.	agmentation half-open wa	it	10	secs		
	тс	CP SYN wait		30	sec.		
	тс	CP FIN wait		10	sec.		
	тс	CP connection idle timeout		3600	sec.		_
	UE	OP session idle timeout		30	sec.		
	• Dos	S Detect Criteria					
	Тс	otal incomplete TCP/UDP s	essions HIGH		300	session	
	Те	atal incomplete TCD/UDD s	assions LOW		loro	_	-

SMC®			SECU	RITY
Networks			🔐 🔒 Hon	ne 💿 Logout
Setup Wizard 🔺 Home Network	• DoS Detect Criteria			-
Security	Total incomplete TCP/UDP sessions HIGH	300	session	
 Firewall 	Total incomplete TCP/UDP sessions LOW	250	session	
Schedule Rule Access Control	Incomplete TCP/UDP sessions (per min) HIGH	250	session	
MAC Filter	Incomplete TCP/UDP sessions (per min) LOW	200	session	
Parental Control Intrusion Detection	Maximum incomplete TCP/UDP sessions number from same host	30		
▶ DMZ	Incomplete TCP/UDP sessions detect sensitive time period	900	msec.	
Wireless	Maximum half-open fragmentation packet number from same host	30		
Advanced Settings	Half-open fragmentation detect sensitive time period	10000	msec.	
	Flooding cracker block time	300	sec.	
		-	SAVE SETTINGS	CANCEL

Network attacks that deny access to a network device are called DoS attacks. DoS attacks are aimed at devices and networks with a connection to the Internet. Their goal is not to steal information, but to disable a device or network so users no longer have access to network resources.

The Barricade protects against DoS attacks including: Ping of Death (Ping flood) attack, SYN flood attack, IP fragment attack (Teardrop Attack), Brute-force attack, Land Attack, IP Spoofing attack, IP with zero length, TCP null scan (Port Scan Attack), UDP port loopback, Snork Attack.

Note: The firewall does not significantly affect system performance, so we advise enabling the prevention features to protect your network.

Parameter	Defaults	Description
Intrusion Detection Feature		
SPI and Anti-DoS firewall protection	No	The Intrusion Detection feature of the Barricade limits the access of incoming traffic at the WAN port. When the Stateful Packet Inspection (SPI) feature is turned on, all incoming packets are blocked except those types marked with a check in the SPI section at the top of the screen.
RIP Defect	Disabled	If the router does not reply to an IPX RIP request packet, it will stay in the input queue and not be released. Accumulated packets could cause the input queue to fill, causing severe problems for all protocols. Enabling this feature prevents the packets accumulating.
Discard Ping to WAN	Don't discard	Prevents a ping on the router's WAN port from being routed to the network.

The table below lists the Intrusion Detection parameters and their descriptions.