Model: SMCWBR14-G2 Topic: Wireless Encryption Setting

Configuration – Set the Wireless Encryption setting through the router's web based configuration via an Internet Explorer (IE)

It is highly recommended to configure the Wireless Encryption by wired connection.

- a. Enter Barricade's default IP 192.168.2.1 in Internet Explorer to access configuration page
- b. You will be greeted with a login screen, enter *smcadmin* as password. Click **LOGIN**
- c. Please go to Security → Wireless Please make sure that the Wireless Module is Enable

SMC [®] Networks	SECUR
Setup Wizard	Wireless Settings
Home Network Settings	The wireless router can be quickly configured for roaming clients by setting the service set identifier Wireless Netw
Security	Name(SSID) and channel number. It also supports data encryption and client filtering.
 Firewall Wireless 	Enable or disable Wireless module function : Enable Disable
 Wireless Encryption Access Control 	SAVE SETTING
VWEP	
VPA/WPA2	
₽ 802.1X	
Advanced Settings	

 d. Please go to Wireless Encryption which under Security – Wireless There are two Wireless Encryption modes to choose: WEP Only & WPA/WPA2 Only

SMC [®] Networks	SECURITY		
Setup Wizard Home Network	Security		
Security	The wireless router can transmit your data securely over the wireless network. Matching security mechanisms must be setup on your wireless router and wireless client devices. You can choose the allowed security mechanisms in		
 Firewall Wireless Wireless Encryption Access Control WEP WPA/WPA2 802.1X 	Allowed Client Type: No WEP, No WPA/WPA2 No WEP, No WPA/WPA2 WEP Only WPA/WPA2 Only SAVE SETTINGS CANCEL		
Advanced Settings			

If you are transmitting sensitive data across wireless channels, you should enable Wi-Fi Protected Access (WPA) or Wired Equivalent Privacy (WEP) encryption. Encryption security requires you to use the same protocol set (WPA or WEP) and encryption/decryption keys for the Wireless Barricade and all of your wireless clients.

The security mechanisms that may be employed depend on the level of security required, the network and management resources available, and the software support provided on wireless clients. A summary of wireless security considerations is listed in the following table.

Security Mechanism	Client Support	Implementation Considerations
WEP	Built-in support on all 802.11b and 802.11g devices	 Provides only weak security Requires manual key management
WPA mode	Requires WPA-enabled system and network card driver (native support provided in Windows XP)	 Provides good security in small networks Requires configured RADIUS server, or manual management of pre-shared key
	<i>802.1x mode</i> Requires WPA-enabled system and network card driver (native support provided in Windows XP)	 Provides robust security in WPA-only mode (i.e., WPA clients only) Requires configured RADIUS server 802.1x Extensible Authentication Protocol (EAP) type may require management of digital certificates for clients and server

WEP Section

This section will guide on how to setup using the WEP encryption which is less secured than WPA mode. You need to make sure your Wireless Utility able to support WPA mode. If you want to choose WPA mode, please skip this section and proceed to WPA section.

- a. Please go to WEP which under Security Wireless
- b. Please choose either 64bit or 128bit encryption
 - 64bit encryption required 10 Hexadecimal keys
 - 128bit encryption required 26 Hexadecimal keys.
 - Hexadecimal is from 0-9 & a-f

For example: 64bit encryption: 01234567890 128bit encryption: 01234567890abcdef0123456789

etup Wizard 🔷 🖞	WEP	
ome Network ettings W	WEP is the basic mechanism to transmit your data securely over the wireless network. Matching enc be setup on your wireless router and wireless client devices to use WEP.	cryption
Eirowall		
Wireless	WEP Mode O 64-bit O 128-bit	
Vireless Encryption	Key Entry Method O Hex O ASCII	
Access Control	Key Provisioning Static ODynamic	
V WEP		
VWPA/WPA2	Static WEP Key Setting	
▶ 802.1X	10/26 hex digits for 64-WEP/128-WEP	
dvanced Settings	Default Key II	
	Passphrase (1~32 characters)	
	Key 1	
	Кеу 2	
	Кеу 3	
	Key 4	
	Clear	
	SAVE SETTI	INGS

- c. Please choose **Hex** for Key Entry Method Please choose **Static** for Key Provisioning Please choose **1** for the Default Key ID
- d. Please key in **Hex key** into the Key 1 box accordingly base on the 64bit/128bit requirement.
- e. Click Save Settings to apply the configuration.

f. Please go to Wireless Encryption which under Wireless



g. Please make sure WEP only is selected under the Allow Client Type

Please remind that you need to key in the same encryption key for the wireless client as well

- Please scan the available wireless network
- Select your wireless network and connect to it
- It will prompt for encryption key and please enter the same encryption key
- h. WEP successfully configured.

WPA/WPA2 Section

This section will guide on how to setup using the WPA. You need to make sure your Wireless Utility able to support WPA mode. If you using Windows XP built –in Utility (Wireless Zero Configuration) to control the wireless card, please confirm that there is at least SP2 installed in your computer.

- a. Please go to WPA/WPA2 which under Security Wireless
- b. Please select TKIP+AES (WPA/WPA2) Please choose Pre-shared key Please key in the passphare in the Pre-shared key. It required at least 8 characters and up to 63 characters.

etup Wizard	WDA/WDA2		
ome Network ettings	WPA/WPA2 is a security enhancement that strongly increases the level of data protection and access o		
ecurity	existing wireless LAN. Matching authentication and encryption methods must be setup on your wireless I		
Firewall	wireless client devices to use WPA/WPA2.		
Wireless			
Wireless Encryption			
Access Control	Authentication C 802.1X C Pre-shared Key		
> WEP > WPA/WPA2	Pre-shared key type • Passphrase (8~63 characters) • Hex (64 digits)		
▶ 802.1X	Pre-shared Key		
dvanced Settings			
	Group Key Re_Keying reper 1800 Seconds		
	C Per 1000 K Packets		
	C Disable		
	SAVE SETTINGS CANCEL		

- c. Click Save Settings to apply the setting.
- d. Please go to Wireless Encryption which under wireless



- e. Please choose WPA/WPA2 Only for Allowed Client Type
- f. Please click Save Settings to apply the setting

Please remind that you need to key in the same encryption key for the wireless client as well

- Please scan the available wireless network
- Select your wireless network and connect to it
- It will prompt for encryption key and please enter the same encryption key
- g. WPA successfully configured.