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The Concept of Global Communication

Setting security with the C54APM and the C54RU/RC/Ri

This manual will help you to set security on the C54APM and the C54RU/RC/Ri. With security, your wireless connection will not be available for other people who do not know about the security settings.

GENERAL NOTE: When changing settings on the C54APM, make sure you are connected with the supplied Ethernet cable instead of the wireless connection!!

Setting WEP Security on the C54APM.

WEP Security can be used with all supported operating systems. To enable WEP Security, follow the next steps:

 Open Internet Explorer, and type in the adressbalk the IP address of the access point. (Default: <u>HTTP://10.0.0.1/</u>)

Connect to 10.0.	0.1
	E.C.
20 B	
liser name:	
Password:	
	Remember my password
	OK Cancel

2. Enter the Username and Password for the router (Default: admin / admin) (Username and password can be in capitals in some versions of the C54APM)

Mode St	atus Admin LAN
Currently Running Current Setup	•Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode •Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode .
	Current Mode: AP Mode
Client	What's This? Setup
Access Point	• What's This? Setup
Repeater	What's This? Setup
P2F	What's This? Setup
PMF	What's This? Setup
	Арріу
	WEBSERVER

3. Select "Setup" at the "Access point" section.



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Mode Sta	tus Admin LAN
Currently Running Current Setup	•Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode . •Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode .
MODE	○ 802.11b ○ 802.11g ④ Mixed
SSID	WLAN
Broadcast SSID	🔿 Disable 💿 Enable
Channel	Channel 6 💌
Security	O Disable O WEP O WPA Setup 4
Advanced Settings	Setup
Access Filter	Setup 4
	Apply Cancel

4. Select the option "WEP", and click on "Setup".

WEP Authentication Type WEP Length 5 → Mode	 Open Shared Key WEP-64 SWEP-128 HEX ASCII
Passphrase	Generate Clear 11aa22bb33cc44dd55ee66ff77
Key 3 Key 4 Defaulter Key 7	Key 1 © Key 2 © Key 3 © Key 4 Apply Close

- 5. Set the Authentication Type to "**Open**", the WEP Length to "**WEP-128**" and the Mode to "**HEX**".
- 6. Set the Default TX Key to "Key 1" and enter an encryption key in the field "Key 1". This key must be 26 characters and can contain the numbers 0 to 9 and the letters A to F. Remember this key! You will need it to configure the wireless card for connection!
- 7. Press "Apply".



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The access point will display the following message:



8. Press "**OK**" to save the WEP security settings. The router will countdown for enabling the settings, like the picture below:



9. When the access point returns to the main configuration screen you can close your Internet Browser.

The next steps will configure the C54RU/RC/Ri for the WEP encryption:

10. Connect your Wireless device to the computer.



11. Double-click on the Conceptronic Utility in the taskbar. The Conceptronic Utility will come up. You will see that the WLAN network is secured with WEP Security.

To connect to avail	able WLAN, click Add to s	etup.	[R <u>e</u> fresh	A <u>d</u> d	
SSID V	MAC(BSSID)	Signal Security	CH	Freq	Mode	
👗 WLAN	00:50:F1:12:00:00	🔊 100% 🚧 WEP	6	2.437Ghz	9	
Profile <u>G</u> roup Contr Please select a prof	ol ile group to apply : Aut	eferred WLANs: omatically connect to availab	ole WLAN per b	elow order:	<u>N</u> ew <u>R</u> emove	
	Rena <u>m</u> e Dejete		ien system		Properties Move to	

12. In the "preferred WLAN's" section, select "WLAN" and press "Properties".



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Wireless Network Properties
Wireless network name (SSID): WLAN
Wireless network key (WEP)
This network requires a key for the following:
Authentication Mode: Open System
Data Encryption: WEP 🗾 🗲 13
Key length: 128 bits (104+24) - 26 Hexadecima
Key 1: 14
Key <u>2</u> :
Key <u>3</u> :
Кеу <u>4</u> :
Default key: Key 1
Enable 802.1 Authentication Config
This is a computer to computer (ad hoc) network; no access points are used.
IP & Proxy Setting

- 13. At the Properties Page, set the Authentication Mode to "Open System", the Data Encryption to "WEP" and the Key length to "128 Bits (104+24) – 26 Hexadecimal". 14. Enter the key from step 7 in the field of Key 1 and press "OK".

The wireless connection is now available with WEP security.



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Setting WPA Security (Only for Windows 2000 and Windows XP)

WPA Security can only be used with Windows 2000 and Windows XP. WPA is more secure, and simpler to install than WEP security.

To enable WPA Security, follow the next steps:

1. Open Internet Explorer, and type in the adressbalk the IP address of the access point (Default: HTTP://10.0.0.1/)

Connect to 10.0.	0.1 ? 🔀	
	Ger	
User name:	🕼 admin	
Password:		$\exists 2$
	<u>Remember my password</u>	
	OK Cancel	

2. Enter the Username and Password for the router (Default: admin / admin) (Username and password can be in capitals in some versions of the C54APM)

	CONCEPTRONIC® The Concept of Global Communication
Mode Sta	atus Admin LAN
Currently Running Current Setup	•Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode . •Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode .
	Current Mode: AP Mode
Client	What's This? Setup
Access Point	What's This? Setup
Repeater	What's This? Setup
P2P	What's This? Setup
PMP	What's This? Setup
	Apply
	WEBSERVER

3. Select "Setup" at the "Access point" section.



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	CONCEPTRONIC [®] The Concept of Global Communication
Mode Sta	tus Admin LAN
Currently Running Current Setup	•Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode . •Client Mode •AP Mode •Repeater Mode •P2P Mode •PMP Mode .
MODE	○ 802.11b ○ 802.11g ④ Mixed
SSID	WLAN
Broadcast SSID	🔿 Disable 💿 Enable
Channel	Channel 6 💌
Security	○ Disable ○ WEP ⊙ WPA Setup ← 4
Advanced Settings	Setup 4
Access Filter	Setup Cancel

4. Select the option "WPA", and click on "Setup".

WPA	
WPA Data Encryption	
Authentication Method	PSK (Pre-Shared keys) O
WPA Passphrase	WPASECURITY Clear 5
Group Re-Key Time (seconds)	86400
6=	Apply Close

- 5. Set the "WPA Data Encryption" to "**TKIP**" and enter a Pass phrase in the "WPA Passphrase" field. This key needs to be at least 8 characters. Remember this key! You will need it to configure the wireless card for connection!
- 6. Press "Apply".





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The access point will display the following message:



7. Press "**OK**" to save the WPA security settings. The router will countdown for enabling the settings, like the picture below:



8. When the access point returns to the main configuration screen you can close your Internet Browser.

The next steps will configure the C54RU/RC/Ri for the WEP encryption:

9. Connect your Wireless device to the computer.



10. Double-click on the Conceptronic Utility in the taskbar. The Conceptronic Utility will come up. You will see that the WLAN network is secured with WPA Security.

SSID	MAC(BSSID)	I Signal	Security	CH	Freq	Mode	
				Ŭ	2.101012	3	
Profile Group Contr	ol	- Preferred WLANs:	:				
Profile Group Contr Ylease select a prol	ile group to apply :	Preferred WLANs: Automatically conn	ect to available W	'LAN per t	pelow order:	New	
Profile Group Contr Nease select a prol	file group to apply :	Preferred WLANs: Automatically conn SSID	: lect to available W Securi	'LAN per t	below order:	New Remove	
Profile Group Conti 'lease select a prol	file group to apply : New Rename	- Preferred WLANs: Automatically conn SSID & WLAN	: nect to available W Securi Open S	'LAN per t ty ystem	below order:	New Remove Properties	
Profile Group Conti Yease select a prof	file group to apply : New Rename Delete	- Preferred WLANs: Automatically conn SSID I WLAN	: nect to available W Securi Open S	'LAN per t ty ystem	below order:	New Remove Properties	(-()

11. In the "preferred WLAN's" section, select the WLAN and press "Properties".



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Wireless Network Properties
Wireless network name (SSID): WLAN
Wireless network key (WEP) This network requires a key for the following:
Autnentication Mode: WPA-PSK Data Encryption: TKIP
Key length: 64 bits (40+24) - 10 Hexadecimal d
Key 1:
Key 2:
Кеу 3:
Key 4:
Default key: Key 1
Enable 882.1X Authentication Config
This is a computer to computer (ad hoc) network; no access points are used.
IP & Proxy Setting OK Cancel

- 12. At the Properties Page, set the Authentication Mode to "WPA-PSK" and the Data Encryption to "TKIP".
- 13. Press "Authentication Config".

Advanced Security Settings		×	
WPA-PSK			
WPA Passphrase			न् 15
EAP Type			\sim
EAP Type:			
Certificate			
User Certificate			
🔲 Validate Server Certifica			
User Information			
User Name	Domain Name		
Password			
Confirm Password			
TTLS Identity			
Trust CA. List			
		Add	
		emove	
ок.	Cancel		

14. Enter the WPA string from step 5 in the field for WPA Pass phrase and press "OK".

15. At the Properties Page, press "OK".

The wireless connection is now available with WPA security.

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