

Cisco IOS radio security basics

Download the Cisco AP1310 User's Guide and configuration instructions (in PDF format) from the website at: http://radiokomunikacja.edu.pl/u/rkotrys/wlan_lab___7_semester

1. Cisco IOS Software Configuration: <http://radiokomunikacja.edu.pl/f/87>

Enable WPA-PSK security on the radio link

Connect in to the Cisco AP1310 device serial administration console (look at chapter 3 of [1])

Set encryption mode WPA2 for a radio interface

After establishing a serial connection to Cisco AP1310 enable "Privileged EXEC" mode:

```
ap> enable
Password: Cisco
ap#
```

enable "Global configuration" mode:
ap# configure terminal

enable "Interface configuration" mode for dot11Radio 0:
ap(config)# interface dot11Radio 0

encryption for WPA2
ap(config-if)# encryption mode ciphers aes-ccm // set encryption

Or (for wlan networks with winXP clients set WPA1 encryption)
ap(config-if)# encryption mode ciphers tkip // set WPA1 encryption

exit to "Global configuration" mode:

```
ap(config-if)# exit
ap(config)#
```

Configuring the SSID security options (for existing global name of the WLAN eg. 'wlan_name')

```
ap(config)# dot11 ssid wlan_name
```

enable **wpa** and set the wpa-psk **password** (look at the prompt "config-ssid")

```
ap(config-ssid)# authentication key-management wpa
ap(config-ssid)# wpa-psk ascii wlan1234
```

exit to "Global configuration" mode:

```
ap(config-ssid)# exit
ap(config)#
```

Basic AP WPA-PSK security configuration is done

Save the configuration:

```
ap# copy running-config startup-config
```