

RADIUS WAP Configuration Guide

2011-04-11

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Audience:

This document is for the use of the Network Administrator. In the future, I do not foresee as yet other appropriate persons to whom this document may apply. It is assumed that the Network Administrator has an understanding of the Cisco CLI and Terminal usage processes.

Preamble:

This document details the exact setup required for a WAP which will use the APEagers Radius server 'qld-ras1' to authenticate with. Please refer to the document "APEagers RADIUS Server Setup Guide" for details on the setup of this server.

This document DOES NOT detail how to configure the Radius server. This document DOES NOT detail how to connect clients to the WAP or the Radius server.

Configuration in Detail:

The following are the commands to setup via the CLI bare/factory default WAPs. Manual sections must be entered by typing the commands and Auto sections can be copied and pasted into the terminal. (Note: that this Word document has issues with the length of lines so a "_" is used to denote that the line has carried over. DO NOT copy details to paste into the terminal from this document use the .txt file)

Manual1:

```
service password-encryption
enable secret 0 <is a!>
username issadmin password 0 <clueless>
int bvi1 ip address x.x.x.x 255.255.0.0
ip default-gateway x.x.y.254
hostname campus_dept_no
snmp-server location "CAMPUS - Brand Department - Number"
```

Auto1:

```
no username Cisco

aaa new-model
aaa group server radius rad_eap
    server 10.1.1.99 auth-port 1812 acct-port 1813
exit
aaa authentication login eap_methods group rad_eap
no aaa authentication login mac_methods local

ip radius source-interface BVI1
radius-server retransmit 3
radius-server attribute 32 include-in-access-req format %h
```

Manual2:

```
radius-server host 10.1.1.99 auth-port 1812 acct-port 1813 _  
key 0 <clueless>
```

Auto2:

```
dot11 ssid apeagers  
authentication open eap eap_methods  
authentication network-eap eap_methods  
authentication key-management wpa  
guest-mode  
exit  
  
int Dot11Radio 0  
no shutdown  
encryption mode ciphers tkip  
ssid apeagers  
speed basic-1.0 basic-2.0 basic-5.5 6.0 9.0 basic-11.0 _  
12.0 18.0 24.0 36.0 48.0 54.0  
exit  
int Dot11Radio 1  
no shutdown  
encryption mode ciphers tkip  
ssid apeagers  
speed basic-1.0 basic-2.0 basic-5.5 6.0 9.0 basic-11.0 _  
12.0 18.0 24.0 36.0 48.0 54.0  
exit  
  
snmp-server contact "issadmin@apeagers.com.au"  
snmp-server community apsnmpro ro  
snmp-server community apsnmprw rw  
snmp server 10.1.1.43
```