

### Wireless Security

**WEP** Wired Equivalent Privacy. It was implemented in 1999 and started with 64-bit encryption and was later updated to 128-bit. It is easily hackable so a new solution had to be made.

**WPA** Wi-Fi Protected Access. Was implemented in 2003. It has 256-bit encryption. WPA is mostly attacked over WPS to get access.

**WPA2** Was implemented in 2006. It uses AES algorithms to secure it. Nowadays a modern computer takes anywhere from 2-14 hours to crack a password. WPS should be disabled on a router is possible to prevent such an attack.

### SNMP



Management

- Summary
- SNMP
  - General
  - SNMP V3 Users
  - Communities
  - Trap Receivers
  - Trap Controls

SNMP Trap Receiver > New

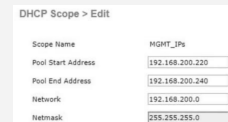
Community Name	CCNAv7
IP Address(Ipv4/Ipv6)	172.16.1.254
Status	Enable
IPSec	<input type="checkbox"/>

#### SNMP Configuration

Simple Network Management Protocol is an Internet Standard protocol for collecting and organizing information about managed devices on IP networks and for modifying that information to change device behavior.

Go to the management tab -> snmp -> trap receivers -> new -> and enter the ip and its name -> press apply

### Configure




DHCP Scope > Edit

Scope Name	MGHT_IPs
Pool Start Address	192.168.200.220
Pool End Address	192.168.200.240
Network	192.168.200.0
Netmask	255.255.255.0

Configure DHCP Scope:

Create a new Scope -> enter its name and config details -> press apply -> click on its name and put status on enabled

### WPA2



WLANs > Edit 'CompanyName'

General Security QoS Policy-Mapping Advanced

Layer 2 Layer 3 AAA Servers

Layer 2 Security

MAC Filtering

WPA2 Enterprise Configuration:

Create a new WLAN or edit an existing one -> to to security tab -> select under layer2 security wpa+wpa2 and under key management 802.1X -> under AAA Servers select its ip

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