

# Class Subnet

## Responsibilities

Has a single network address

## Collaborators

Connects to the router inside

Connects to other subnets outside

# Class Router

## Responsibilities

Keeps track of networks it is connected to, using a routing table.

Internal address – private subnet

External address – public address

## Collaborators

Connects to the switch

Connects to other subnets

# Class Switch

## Responsibilities

Registers MAC addresses for all devices on the network.

Allows traffic between devices

## Collaborators

Connects to WAPs, router, servers, and PCs

# Class Wireless Access Point (Superclass)

## Responsibilities

Each WAP has a MAC and static IP address.

Holds a list of the MAC addresses of the devices connected.

## Collaborators

Must be connected to a switch.

# Class Host (Superclass)

## Responsibilities

Has a MAC address, IP address and a name.

## Collaborators

Connects PCs and servers to the switch

Connects laptops & mobiles to WAPs

# Class PC (Subclass)

## Responsibilities

Has a dynamic IP address

## Collaborators

Connects to the switch

# Class Laptop & Mobile (Subclass)

## Responsibilities

Has a dynamic IP address

## Collaborators

Connects to a WAP

# Class Server (Subclass)

## Responsibilities

Has a static IP address  
Open port numbers

## Collaborators

Connects to the switch