

# **SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**



## **HOME WIRELESS NETWORK**

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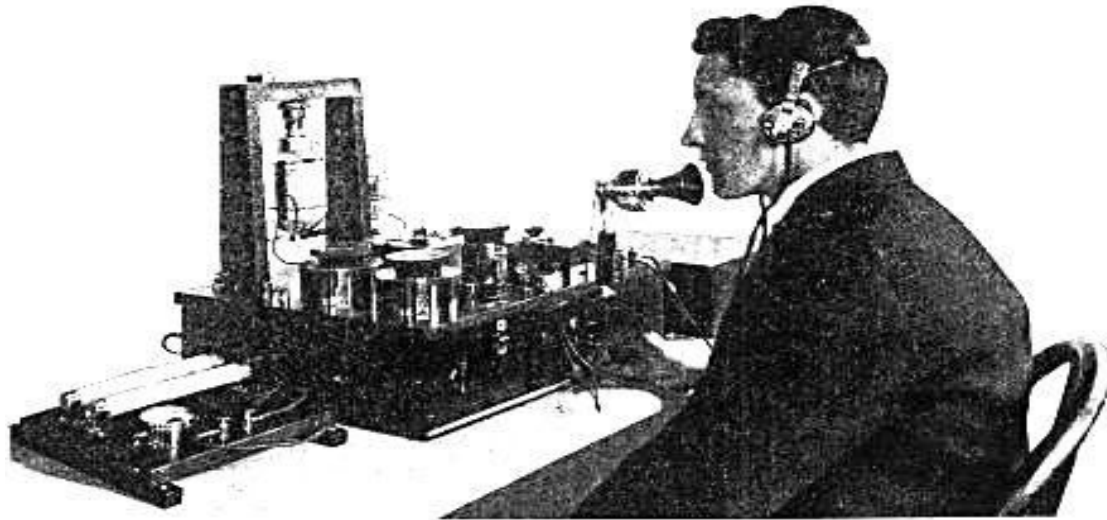
# INTRODUCTION TO WIRELESS NETWORK COMMUNICATION

- One of the medium of communication
- Transfer of information without any conductor electrical
- Used for both long & short distances
- Radio frequency, Infrared light, Laser light etc. is used.



# HISTORY OF WIRELESS COMMUNICATION

- Wireless telephone conversation occurred in 1880 using 'photo phone'.



# NEED OF WIRELESS COMMUNICATION

- Communicating with each other and sharing information
- For a business deals
- Remote access to medical records by paramedic may save a life
- At the time of disaster



# WIRELESS NETWORK

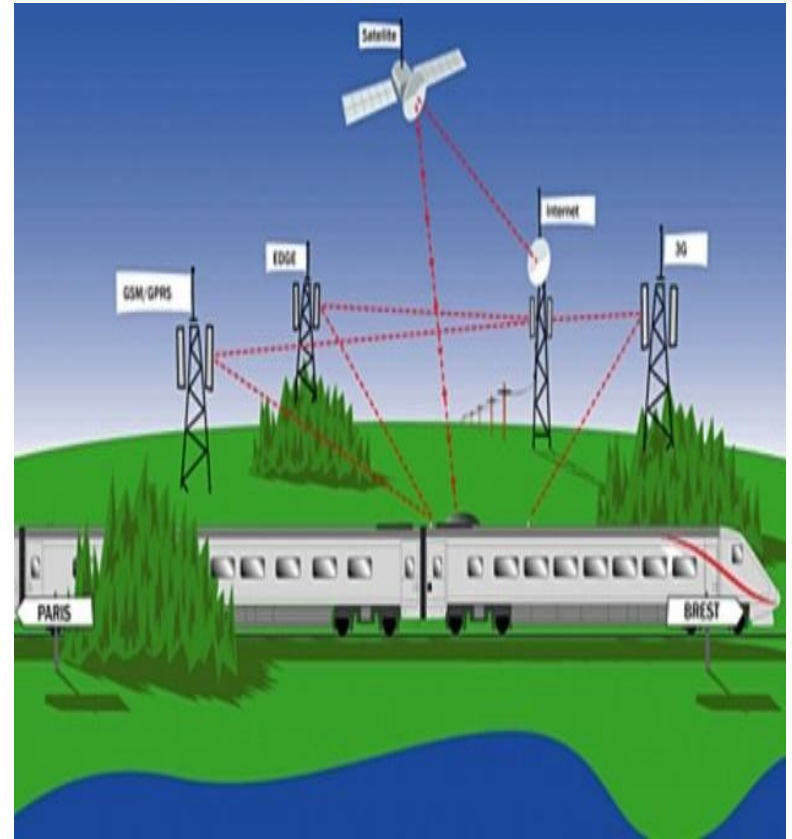
## WI-FI

- Popular over the past few years
- A wireless local area network
- Portable computing devices to connect easily to the internet



# ADVANTAGES OF WIRELESS NETWORK

- Used for both short & long distances
- Can be used in any condition like disasters
- Easy mobility of the devices
- Low maintenance and no additional cost of wiring





# **FUTURE OF WIRELESS NETWORK**

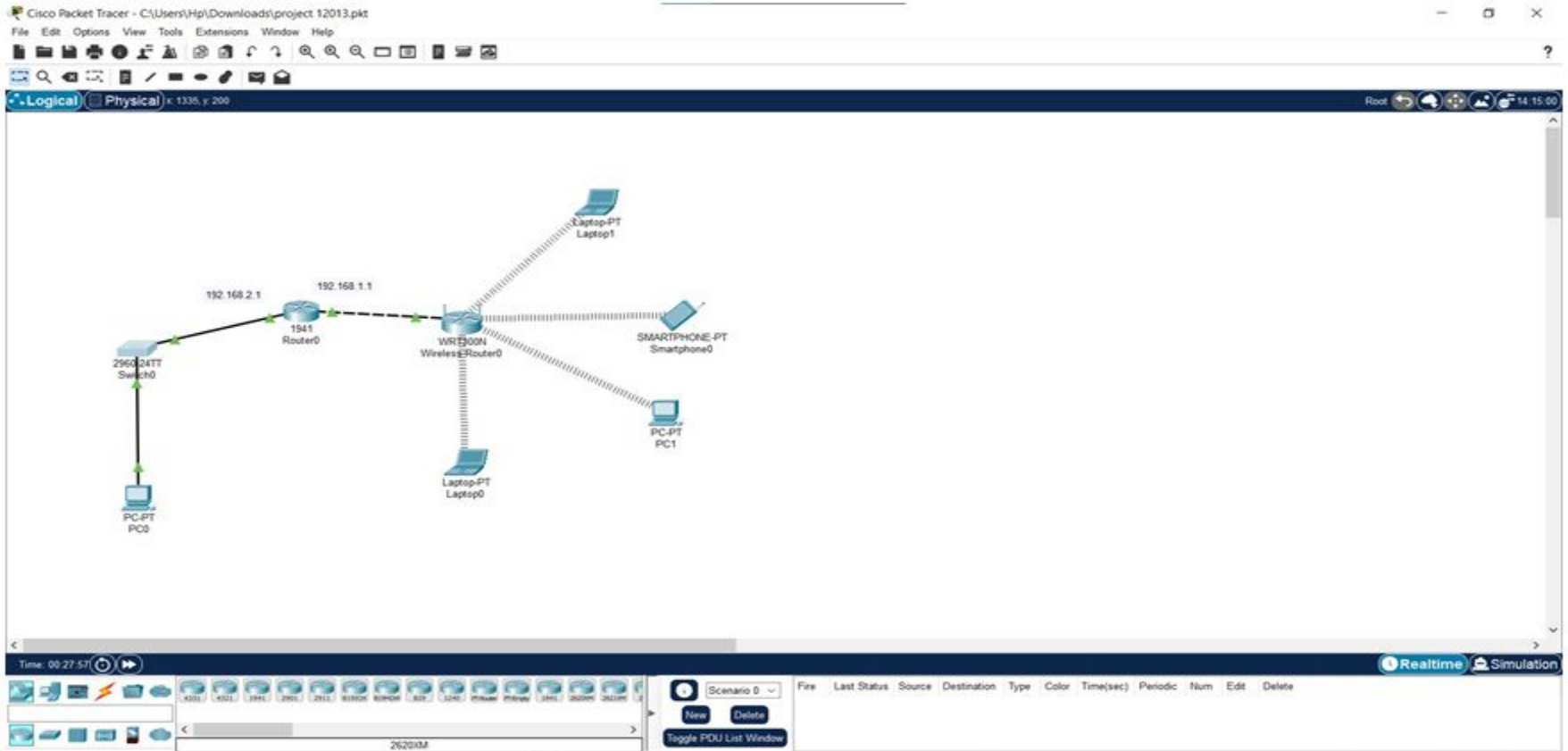
Some improvement to be done:-

- Has to be made more secured
- Eco friendly and non-risky ways to be find out
- Speed to be increased





# Network Topology Diagram



## Output Screenshot

```
Link-local IPv6 Address.....: ::  
IPv6 Address.....: ::  
IPv4 Address.....: 0.0.0.0  
Subnet Mask.....: 0.0.0.0  
Default Gateway.....: ::  
                        0.0.0.0
```

Wireless0 Connection:

```
Connection-specific DNS Suffix..  
Link-local IPv6 Address.....: FE80::201:42FF:FEB0:5486  
IPv6 Address.....: ::  
IPv4 Address.....: 192.168.1.100  
Subnet Mask.....: 255.255.255.0  
Default Gateway.....: ::  
                        192.168.1.2
```

C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

```
Reply from 192.168.1.2: bytes=32 time=20ms TTL=255  
Reply from 192.168.1.2: bytes=32 time=13ms TTL=255  
Reply from 192.168.1.2: bytes=32 time=13ms TTL=255  
Reply from 192.168.1.2: bytes=32 time=26ms TTL=255
```

Ping statistics for 192.168.1.2:

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
    Minimum = 13ms, Maximum = 26ms, Average = 18ms
```

C:\>|

## Ping Command Screenshot

THANK YOU