



# مجلة التربوي

## مجلة علمية محكمة تصدر عن كلية التربية جامعة المرقب

المجلد الثالث والعشرون  
يوليو 2023م

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رئيس هيئة التحرير: د. مصطفى المهدي القط  
مدير التحرير: د. عطية رمضان الكيلاني  
سكرتير المجلة: أ. سالم مصطفى الديب

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## Comparing Review between Wireless Communication Technologies

نادية مجد الدالي<sup>1</sup> ، زينب سعيد مجد سعيد<sup>2</sup> ، ايمان احمد اخميرة<sup>3</sup>

قسم الحاسوب / كلية التربية – جامعة المرقب<sup>3,1</sup>

المعهد العالي للعلوم والتقنية / اجدابيا<sup>2</sup>

n.m.aldali@elmergib.edu.ly<sup>1</sup>, zeinabsaeed94@gmail.com<sup>2</sup>, eman\_ekmira@yahoo.com<sup>3</sup>

**Abstract :** Wireless telecommunications is the transfer of information between two or more points that are not physically connected. Distances can be short, such as a few meters for television remote control, or as far as thousands or even millions of kilometers for deep-space radio communications. It encompasses various types of fixed, mobile, and portable two-way radios, cellular telephones, personal digital assistants (PDAs), and wireless networking. In this paper will purpose demonstrate the types of telecommunications and to illustrate telecommunication methods and focus more on introduce one of the main methods of telecommunication Wi-Fi .other than we are going to explain about the requirement, features and application for Wi-Fi telecommunication.

**Keywords :** wireless telecommunication- backbone – access network - hotspots –Wi-Fi .

### 1. Introduction

Telecommunications is defined as remote transmission of information with means based on electronics and computers. This term has a broader meaning than its equivalent official "electronic communication" sense. This is in contrast to the position that transmits information or objects in physical form.

The concept of telecommunications represent transmission, emission and / or reception of signs, signals, written text, images, sounds or messages through any kind of media such as wires, radio waves, optical cables or other electromagnetic media.

The applications of telecommunication are diverse and different in techniques and standards, the main applications of telecommunications are radio, television, telephone and mobile phone, data communications, computer networks or the Internet.

Many communication technologies designed to meet military or scientific purposes, converged in other non-specialist focused on consumer calls information technology and communication, and the great importance of telecommunication in the daily lives of individuals, companies or institutions and government policies. The communication through the Internet, such as email or instant messaging is another example of telecommunication. Nowadays, telecommunications is an important part of the global economy and revenues of the telecommunications industry accounted for approximately 3% of gross domestic product (GDP).<sup>1</sup>

<sup>1</sup> Hafner, Katie (1998). Where Wizards Stay Up Late: The Origins Of The Internet. Simon & Schuster. ISBN 0-684-83267-4.



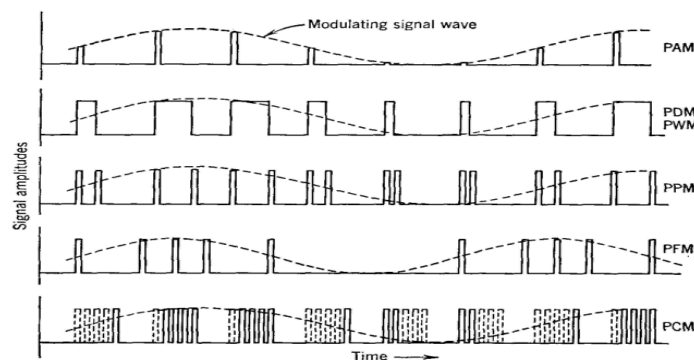
Figure-1: Transmission Antenna

The telecommunication networks include:

- Telephone networks: Telephone network interactive voice services only information
- Broadband networks: Radio broadcast service only voice information
- TV networks: Broadcast images and voice services over the air
- Computer network: send and receive data through cables or wireless

Telecommunication methods are based on Transmitter and Receiver. For example, consider a radio transmission system. In this case the antenna of the station (Figure-2) is the transmitter, the radio is the receiver and the transmission medium is free space or air. Often telecommunication systems and transmit channels are bi-directional (full-duplex) and devices that make them behave both as a transmitter and as a receiver; it is said that they are transceivers.<sup>2</sup>

A cell phone is an example of a transceiver. The communication on a telephone line is called point to point communication, since it occurs between a transmitter and a receiver, the communication through a radio base station is called in general multicast (one-to-many), but more frequently broadcast (one-to-all) because it occurs between a single high-power transmitter and several receivers.



<sup>2</sup> Sugar Scoop Antennas Capture Microwaves." Popular Mechanics, February 1985, p. 87.



## 2. The purpose of this study

- To demonstrate the types of telecommunications
- To illustrate telecommunication methods
- To introduce one of the main methods of telecommunication Wi-Fi

## 3. The Components of Telecommunication Networks

All telecommunications networks are composed of five basic components that are present in each network environment regardless of the type or use. These basic components include terminal processors, telecommunications channels telecommunications, computers, and software for monitoring of telecommunications.

1. **The terminals** are the start and stop points in any telecommunication network environment.
2. **Telecommunications channels** are the way by which the data is transmitted and received. Telecommunications channels are created through a variety of means of which the most popular include copper wires and coaxial cables (structured cabling).
3. **Nodes** equipped with three or more channels, these switch the information received along these links to direct it towards its terminal node.
4. **Telecommunications processors support** data transmission and reception between terminals and computers by providing a variety of control and support functions
5. **The telecommunications control software** is present on all computers connected to a network and is responsible for monitoring the activities and functionality.

## 4. Access Network

The access network is the lower level of the hierarchy telecommunication network. This network connected terminal (terminal) nodes - equipment installed in the users (customers, clients) network. In the event of a computer network end nodes are computers, telephone - telephone, and television or radio - the relevant television and radio. The main purpose of the access network - the concentration of information flows coming through numerous channels from equipment users in a relatively small number of backbone nodes.<sup>3</sup>

Network access and telecommunication network as a whole, may consist of several levels. Switches installed in the lower level nodes , multiplexes incoming information on numerous subscriber channels ( often called subscriber terminations , subscriber line ) and transfer its communication top level , so that they in turn passed it switchboard highway. The number of levels of access network depends on its size; small access network may consist of a single level, and more - from two to three. The next level is carried further concentration of traffic, picking it up and multiple high-speed connections.

## 5. Backbone Networks

Backbone Network brings together some of the access network, serving as transit traffic between them on high-speed channels. Backbone switches can operate not only informative connections between individual users, but also aggregate information flows , transferring large amounts of data for user connections. As a result of using the information highway enters the network access recipients demultiplexing there and switched so that the input port of the user equipment receives only the information that is

<sup>3</sup> Goggin, Gerard, Global Mobile Media (New York: Routledge, 2011), p. 176. ISBN 978-0415469180



addressed to him. In the case where the caller -receiver connected to the same switch, the access and subscriber -sender (either directly or through subordinate in the hierarchy of relationships switches) , the latter performs the necessary switching operation alone.<sup>4</sup>

## 6. Wireless Networks Wi-Fi

Wireless transmission or Wireless Fidelity Wi-Fi is short for any wireless transmission with ultra- precision and speed, and is used to define any of the wireless technologies in the standard IEEE 802.11, a technology which is based on most of the wireless networks WLAN Today.<sup>5</sup>

WiFi technology use radio waves to exchange information instead of wires and cables, WiFi signals can penetrate walls and barriers, and characterized by high-speed transfer and receive data up to 54 Mbps. There are several standards for wireless networks identified by the Institute of Electrical and Electronics Engineers IEEE, most notably 802.11a, and it was approved before standard 802.11b. The latest standards today is 802.11n, and these standards are compatible with each other, but the scope of each standard is different in speed and range. Wi-Fi technology is expected to evolve and develop like most other technological applications.<sup>6</sup>

### 7.1 Hot spots (Hotspots)

Represent the coverage of one or more of the wireless access points, and the access point associated with each is a hot spot as shown in Figure-3. The point hot in any site represent a network spot of WiFi available for use by users (free of charge) in common place such as cafes, restaurants, airports, hotels, universities, libraries and other public places to provide an internet connection for visitors to the place who has a mobile device, such as a laptops, notebook, smart phones, tablets.

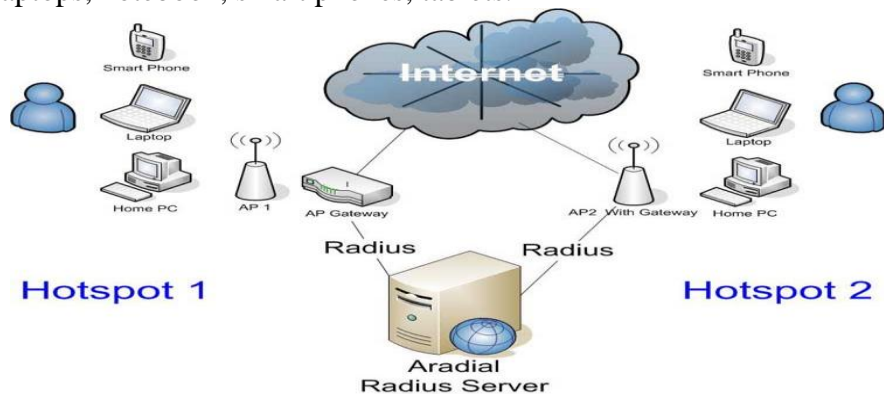


Figure-3: Hotspot coverage diagram

### 7.2 The requirements to use WiFi

The computer or user's device should support WiFi connection. Most of portable devices that are sold in the market nowadays include built-in WiFi cards, which is designed to be

<sup>4</sup> James Bamford, *The Shadow Factory*, Doubleday, 2008, ISBN 0-385-52132-4. p.176

<sup>5</sup> Pasternak, Sean B. 2006. "Toronto Hydro to Install Wireless Network in Downtown Toronto". Bloomberg. Retrieved 8 August 2011.

<sup>6</sup> Haring, John (2008). "Telecommunications". In David R. Henderson (ed.). *Concise Encyclopedia of Economics* (2nd ed.). Library of Economics and Liberty. ISBN 978-0865976658. OCLC 237794267





integrated with hotspots that provide this service, and also can be used with wireless adapters through USB if there is no hotspots wireless signal, the application installed with a wireless card searching automatically for wireless signals in the area around the device, and list all available signals free and encrypted.

### 7.3 Features of WiFi Technology

- The process of preparing their networks fast and easy, there is no need for extensions of the wires and digging inside wall to transmit the signals.
- Users can move with their devices within the transmission range, and carry their devices and walk around the area and remain permanently connected to the internet.
- WiFi offers a great deal of flexibility and thereby increase productivity. It allows passengers to stay connected while traveling.
- Speed up the connection by WiFi to 54 Mbps, there is no need to compare with the modem phone ,WiFi is several times faster than the connection by cable or DSL.
- Set up Wi-Fi networks are cheaper than wired networks, and in particular at the level of large companies, and the administration of WiFi network also less expensive, while the prices of WiFi modems and routers will continue to decline due to increased demand and the continued support to its devices.
- Could be installed in difficult places where extension cables are hard to fix, for example archaeological sites, the best example of where it is difficult to conduct excavations and may be impossible to do so.

- Reliability, security and safety

### 7.4 The weakness of wireless networks

- Interference and jamming
- Underperformance
- Large consumption of energy
- The limited area covered
- Possibility of penetration of personal data

### 7.5 The Applications of Wi-Fi

Wi-Fi was invented and developed for telecommunications service within the network of the local labor LAN but without the use of wires , in the beginning it was the goal of which is to service PCs mobile but the rapid development of this technology has become serve surfers World Wide Web , especially in cafes, restaurants, hotels, airports and banks. It also has played an important role in the technology of VoIP network VoIP, and lead a great service now in places sensitive hospitals and security sites so that the doctor or the security man of access to certain applications to serve the patients or the identification of undesirable persons from entering sensitive areas and other . They also added a lot to the mobile phone technology and the possibility of contact with the World Wide Web in the event of presence within the Wi-Fi network of modern uses and its task is to transfer images from digital cameras to the computer.

### 7. Patterns Range of Wi-Fi

There are two most common patterns in Wi-Fi

- 1) Infrastructure mode requires an access point to a wireless access point to connect to the Internet via wireless LAN at work configuration to the access point you should



know the SSID. The SSID is a key to protection prevents unauthorized users from accessing the network so users must know to be able to access the network. Access point access points are usually connected to the internet via Ethernet Gateway

2) AD-Hoc Mode (two are used for communication between computers directly if the presence of computers in the same point are used to create a connection for quick and easy exchange of data between computers, but they are difficult to manage and do not provide good protection.<sup>7</sup>

## 8. Conclusions

The study makes the following conclusions

- Telecommunications is an important part of the global economy and the internet will control the major trading and business in the world with more development and domination of electronic commerce (e-commerce)
- The modes of telecommunication provides stability and the ability to expand and ease management and improve the protections (privacy)
- Wi-Fi technology is a wireless technology that allows devices access to the internet without the need for cables. Depending on the router and the connection, it has a range of around 100 meters. The connection is possible through infrared and radiofrequency waves.
- The Wi-Fi have a lot of features but in other hand it has some of weaknesses ,
- there are many application for embedded devices with a Wi-Fi interface.

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