

The background of the slide is a repeating pattern of stylized tropical leaves. The leaves are rendered in two colors: a vibrant teal and a muted olive green. They are scattered across the white background, with some leaves pointing upwards and others downwards, creating a dynamic and organic feel.

Wireless communication devices

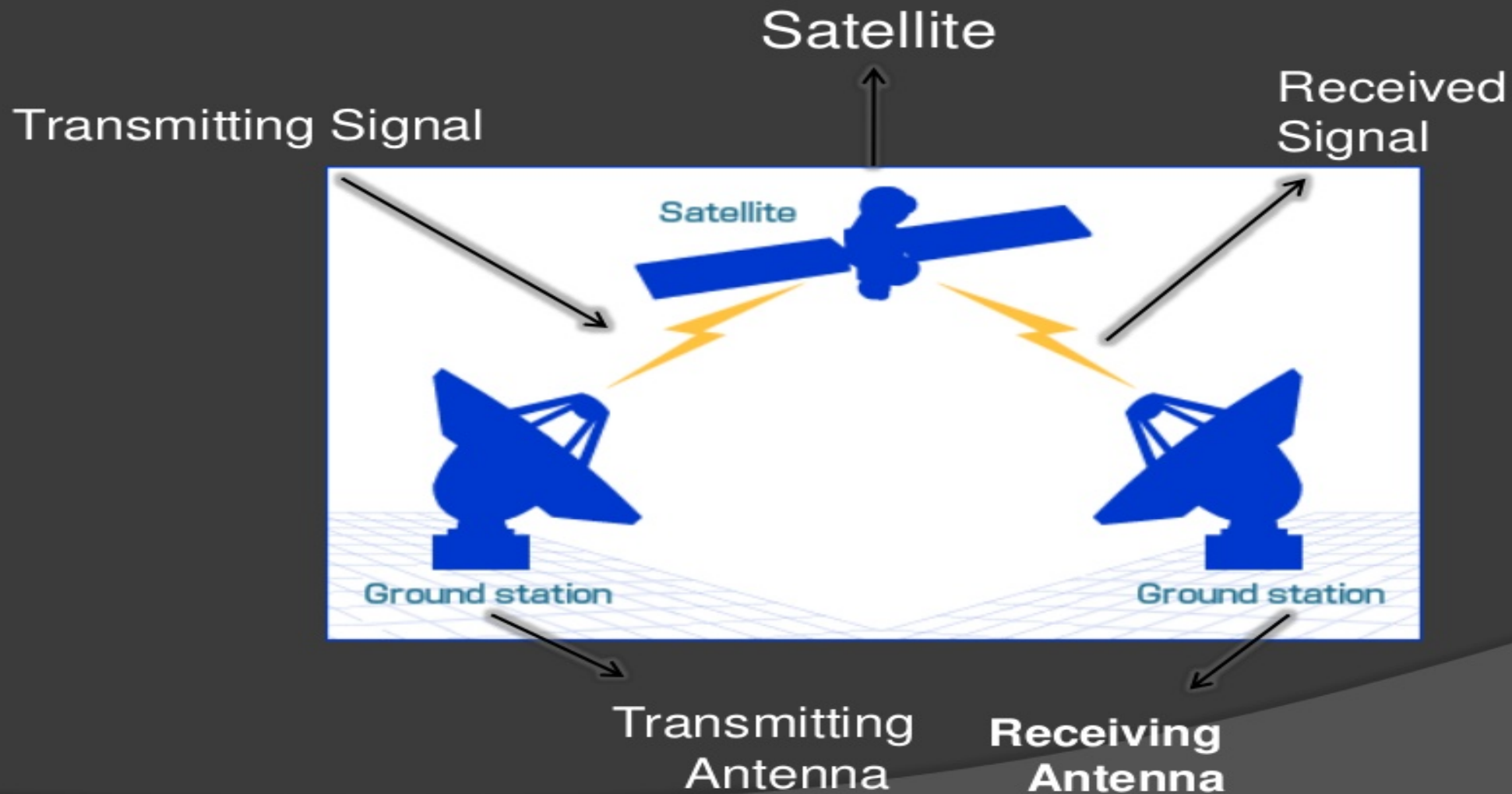
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What is wireless communication?

- Transmitting / receiving voice and data using electromagnetic waves in a open space is called a wireless communication.
- Communication in which information is transfered between two or more points without any wire.
- Wireless communication is an alternative to wired technology which is commonly used for connecting devices in wireless mode.

HOW COMMUNICATION TAKES PLACE?





Types of wireless communications:

□ **Radio transmission:-** easily generated, travel long distance

Problems:- frequency dependent, relatively low band width

□ **Microwave transmission:-** widely used for long distance communication, relatively inexpensive

Problems:- weather and frequency dependent

□ **Infrared and mili meter waves:-** widely used for short range communication ,used for indoor wireless local area networks

Problems:- laser beam can be easily diverted by air



Advantages:-

- ❖ wireless networks are cheaper to install and maintain.
- ❖ A wireless communication network is a solution in areas where cables are impossible to install.
- ❖ Working professionals can work and access internet anywhere and anytime without carrying cables or wires wherever they go.
- ❖ This also helps to complete the work anywhere on time and improves the productivity.



Disadvantages:-

- ❖ has security vulnerabilities.
- ❖ High costs for setting the infrastructure.
- ❖ Unlike wired communication, wireless communication is influenced by physical obstructions , climatic conditions, interference from other wireless devices



Current wireless systems

- Wireless lan's
- Bluetooth
- Satellite systems
- Cellular system
- Paging system



WLAN

- Wireless fidelity is a generic term that refers to IEEE standards for wireless local area networks
- Wireless local area networks connect local computers.
- Channel access is shared.
- Break data into packets.
- Low mobility.



Satellite systems:-

- Optimizes for good transmission
- Voice and data transmission
- Telecommunication application
- Global coverage
- Expensive base stations
- GPS , global telephone connection



Paging system:-

- Broad coverage for short messages
- Message broadcast from all base stations
- Simple terminals
- Over taken by cellular Optimized for one way transmission

*Thank
You!*

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