> What is wif Gechnology?

- > wifi is on alternative network to wired network
- > Used commonly to cornect devices in wincless

> Lorfi 8 ronds for Wineless Fidelity is a generic cerm mat reguls to 1 EE 802. 11 shondowd fur wineless hocal Wetworks or WARNS

It is also witified wificultione, a global montpulp to industry absociation of more mon 300 member companies demoted devoted to promote me grown of wirles LANS.

- but also to me wired network and to me
 - 7 wifi uses radio waves to biansmit and receive days at high speeds

Elements of WiFi network

1. Access point:

> Dx is a wireless Lon LAN brans receiver (or called base station) max con conneck one many wireless devices simultaneously to me intenex.

2. WiFi cards:

They accept wireless signal and relay information. They can be internal or enternal.

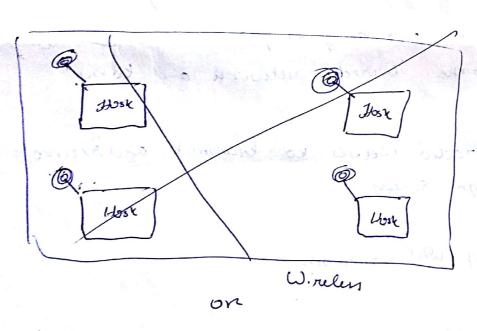
3. Sajegurdi: -

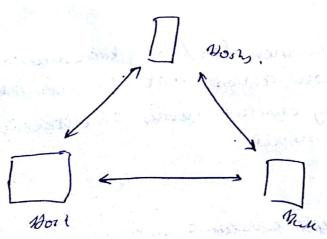
Firewalls and anxivirus software pustick
networks from uninvited users and heep information
securit

WiFi topologies

2: Peer to peer topology (Ad How Holl)

- > AP to a not required
- with each other directly.
 - retwork quickly and easily.

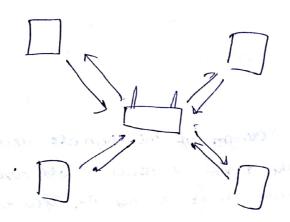




AP-based topology (Inprastructure Hode)

> Communicates moveragh Access Point

An communications have to go meough



Horspors

> A horspor is a geographical area mak has readily accessible wireless network

has one or more access points mor allows users to access me interest windenly.

60 Dowik is made?

- > An access point is installed to on internet
- 7 AP acts as a base station
- hokspor, me device can men connect to make
- > A single agen point -> 30 users -> 100 to 150 feet renge indoor

Eau of motaelarion

7 867

Lawing Reliability

Spee J.

Limikakon

signal of my are using no some frequency land. only a small portion of it reaches he receiver. Mapidly because the signal dispuses in all objects by Intenference: Once signals interfere with the sign with Alkenianon. :- Strengt up me sign als decream Multipam suopagation

Error .. SNR

wave get reflected from walk obstacles.

man one signal from me some sender because re

Power may receive more

. Receiver picks up some signals with afferent

Phans, how hem recognizable.

we con can convert organic to data > If high SWR, signal is swanger than no see 250 > 1) how swa, sign at corrupted and data cannot

5

him hed norge

20

nuvered.

Scanned by CamScanner

191 Han - World Wiele Jarenopenability of

to cover whole geographical area sowing langue number of used at low cost.

Two pany:-

> Wi Han Receiver

Forms of wireless service

> Non line of Sight
> line of sight

Thu of Sight — One base Station

Non line of sight -

be one skakin to customer.

to soon



Orsanisakun

- Lapkon

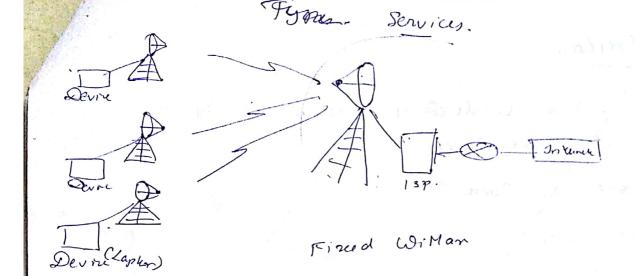
Dones

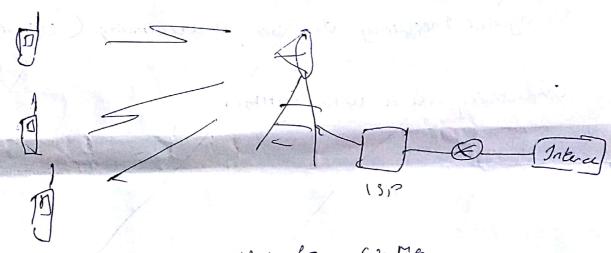
So for me new so har, we red another kness.

JOHN

Scanned by CamScanner

Typus of connection





Mobile Winen

Disadvantage

- > Single coiman station can serve hundreds...
- > Dava now upw. 75 Mbps

disadvankags

- > Interference
- > Deavy nains
 - > Line of sight for long diskerce communication.

Application 2TE

Ormogonze Frequency division mucriplining (QFDM) Connectivity speed upto 70Hbps Wifi Willan D. W. 200. 1900 75 2 up to 70 Mbps. upto 34 Mbps 7 Range 50 km Ronge - 30m Chocam of frequencies used and power of (krommither) Ro Frey. Range terleba > 10-66 60 NZ.