## CNS-U2



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	Network	& Infrasta	uture ba spol		
-	Network & Infrastruture based wireless network.				
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2	write show	of Note on	IEEE 802.11		
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3	Explain IEEE 802.11 Mac Sublayer				
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Krysman M

WLAN

229/9Y/60 .....

Bloodgo/B

wireless Local great Network

- Growing fact metwork Technology - Provide connectivity to computer to network over short retwork area







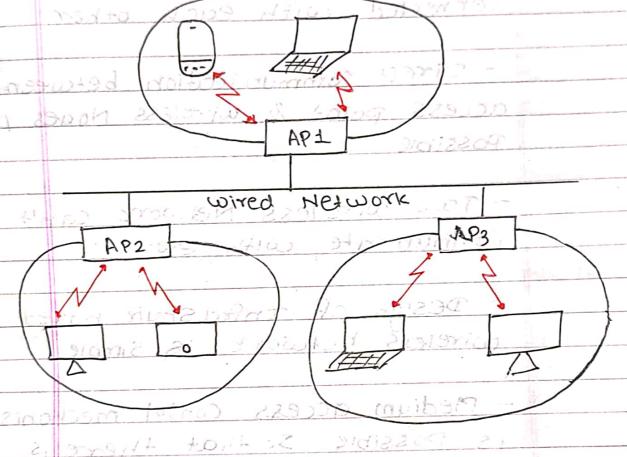
- Use for short Range & small grp - No Needs of cables.

	The same of the sa	
Advantages	DisAdvantages	
· Mobality	· anani H ot	
· Low implematation	Metwork	
Cost	· Restrictions	
· Instalation speed	· Seafy & security	
and Simplicity	· beobiet and 2010.	
· Network expansion		
· Reliability		
· Ecala pility		

· There are two types of WLAN.

- · Infragruture Network
- · Ad hoc network

Infrastruture Based WLAN



AP: Access pointrolaulios of

Oct like bridge between the existing wireless perwork & other network.

- Access Point Provides internet to differ devices

- All access Points one directly conne cted with each other

-Two wireless nodes cannot be connected with each other

- Direct communication between access point & wireless Modes 1s
Possible

- Two wireless Network can't Communicate with e.o.

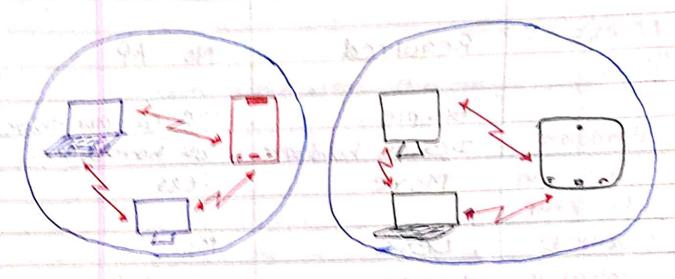
- Design OF Infrastruke based wireless hetwork is simple

- Medium access control mechanism is Possible so that there is No collusion and so

Cexplain how data packets will get toans force).

Sucreting contents deliner





- To sent Need any Infrastruk
- It is a temporary Network
- Nodes will come in the network
  then communicate with each
  other then hodes can leave
- No need of Access Point Each mode communicate with e.o.

Simulessly Die 21 18830 .

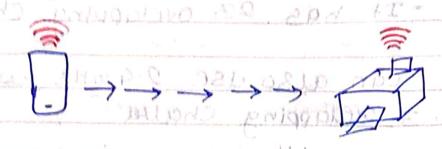
14 253 2

- In Ad hoc Nelwork complexity
  of ecith nelwork as to is
  high.
  - Nodes not Belongs to some herwork can't communicate with each other

		9			
Parameter	Infrashuture	Ad he c			
		- 0			
Access	Required	No AP			
Point					
	Simple	More complex design			
Hardware	Design hardware	of hardwork			
Time requ	More	1235			
ire for setup					
flexibility	Less	Morc			
Limitation	Larger	Limited (smally)			
on range	range	*and			
Communication	can be done	No !			
with other	Via AP.	Possible			
when not in range	le ironopares	2: -2: -			
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2505	rition Home man	= 0 m o f = = = = = = = = = = = = = = = = = =			
· FE	• TEEE 802:14				
	- XEURG - XE				
I. Back	TEEE 802-117 is also known as				
Wireless fideling (wifi)					
· Design to use limited geography					
and gred					
. It is a WLAN Jechnique.					
· It Supports 2 additional feature					
Arce -4 - Power management					
- Security Methanism					
7.8610 -10.65					

Laptop

## Less 2. Ad Lacres wifi direct



TEEE 802.110 MAC SUBJUYER.

access control

- Tasks Performed by mac one.
- control medium access

1711 20 919N

- Support roaming - Authentication

The OSI model in total of Sublayer inwhich the second layer is Pata link layer which is responsible to Forward data over the media Again this layer divided into two Part first is logical link control & second is

901-910-

01

Basic service 108 11106

1. Asychronous Data service

2. Time boundal service (optional)

Here Adhor model offers
only asychrous data service
wheather infrastrume model
offer both time bounded by
Asychnous data service

Three basic access mechanisms.

1. Method Based on CSMAICA Carrier sense multiple access/ collusion avoidance

2. Method to avoid hidden terminal Process.

Address.

Addres

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•	Sychronization power management
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## · Bluetooth



What is Bluetouther

This technology used to connect mobile with their peripheral.

all is an open standard that allows communication between diverse devices.

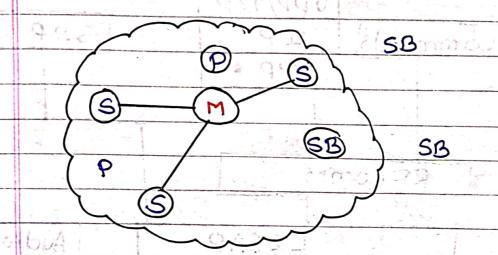
Bluetooth is a Whreless local area Network (WLAN) technology that we use to exchange data over Smaller distance

- \* It has limited coverage, can cover duta between 10 m appos.
  - · closen 4 require any kind of
  - "It is an example of Ad hoc network!
- · Compare to wifi it is slower
- hops hopping rate some?
  - · Communication speed is less than 1 MBPS.

	Advantages
\$1 a	> easy to use
	> Low cost (Free)
10,30	> Noneed of infrasture.
	> Wireless technology
100	> No need of internet
16412	The and state of the second state of the
,	Disadvantage 2000h
	-> Low range
1-449.31/2 3	> Less speed for data transfer
1-11-4	Security issue on but
	2 3 2 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2
, ben	X (R)
1.5	Transport of the first of the second
•	Bluetooth Protocall Stack
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	(a) "105tor () nit (4) Shire
	3 Parked Unit 6 Standby Unit
-100	Liverage Common.
	1950817 b model

## · Piconet Lat 108

It is a network connected by multiple wireless device using Blue tooth.



S: Slave

M: Master

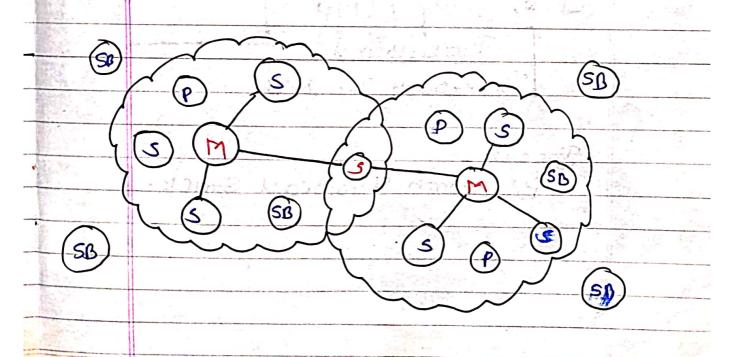
SB Standby

P: Parkell

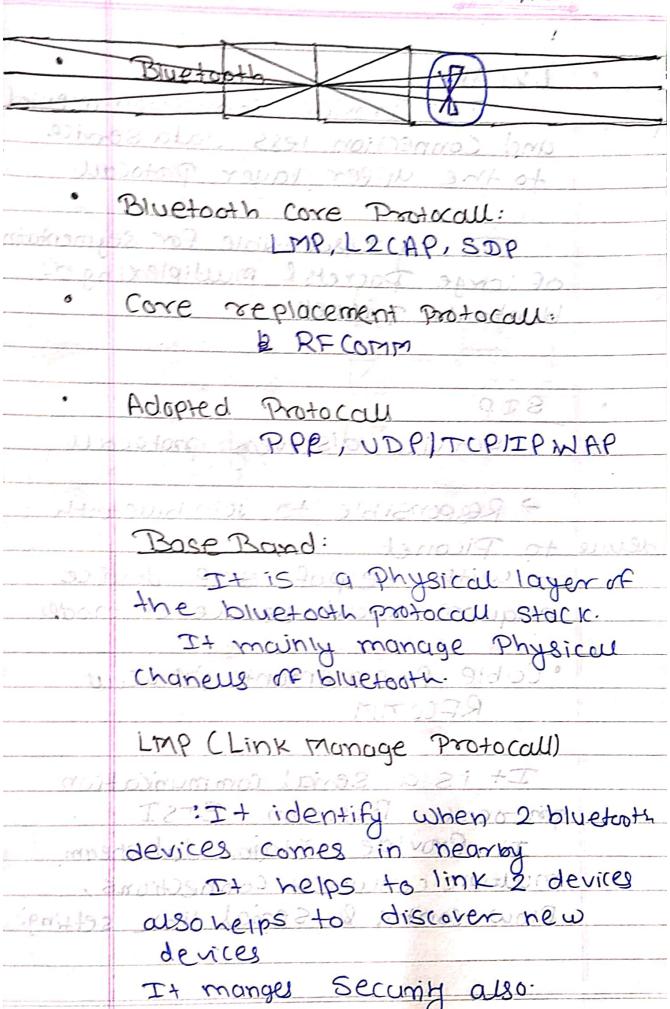
limit to connect

master is 8

i.e. 7 Slave & 1 moser



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L2CAP:

and Connection less data service to the upper layer protocall.

of large Packets & muliplexing of blue-tooth packets

SDP

service discovery protocall

→ Responsible to join bluetooth device to Piconet → with help of SDP device enquire about service of moder

> · Coble Replacement Protocour RECOMM.

Tt is a serial communication protocall Based on ETSI

It Provide relaible dat stream multiple concurrent connections,
Flow control & serial linic setting.

13pmpm